Alberta Software Industry Directory 1986-87

Alberta

ECONOMIC DEVELOPMENT
Industry Development Branch

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Introduction

January, 1986

Dear Reader:

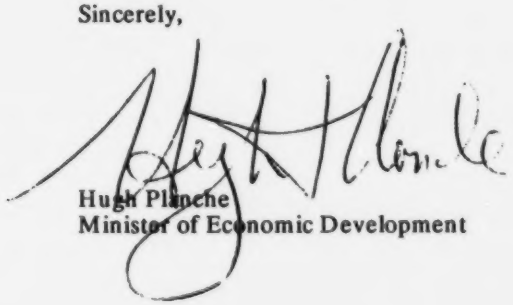
The knowledge-based information processing field, often known as the SOFTWARE industry is one of the most dynamic industries in the world. Although not frequently understood, its impact is very real and affords many opportunities.

Activity in the software sector may often seem transparent, but it contributes significantly in productivity and cost effectiveness to our economy by serving other industries in the province. The variety of expertise and diversity of skills and products available in Alberta is illustrated by the many business classifications categorized in this directory.

In reaching its new levels of sophistication, the SOFTWARE sector is helping Alberta become a centre of excellence, with an international reputation.

This directory identifies sources of Alberta-based software products, services and capabilities. I trust it will serve as an asset to both domestic and international readers.

Sincerely,



Hugh Planche
Minister of Economic Development

B

THE PURPOSE AND USE OF THIS DIRECTORY

The prime objective of the software directory is to provide information about the software industry in Alberta so as to promote its products and services within the province and to national and international audiences.

The specific objectives of this software directory are:

1. To encourage the development of the software industry in Alberta by describing the available products and services.
2. To provide a document for prospective investors and potential collaborators who may be attracted to Alberta because of the availability of certain capabilities in the province.
3. To serve as a marketing tool for Alberta software products and services, both domestically and internationally.
4. To enhance employment opportunities for Alberta graduate students from Alberta's universities, colleges and technical institutes.

This directory contains data on software industry firms, with offices in Alberta. These firms took part in an Alberta Economic Development survey by answering questionnaires and returning them by December 31, 1985.

The directory is an updated and revised version of a previous one done in 1980, and contains expanded information on each profiled company.

The directory consists of three main parts.

— Company listing and company profile

— Executive officers listing

— Software categories and software products

In the company profile section each company provided information on its address, head office and branch offices if any, principal officers, (either at head office or in Alberta), the date it was established and a range for the number of employees in Alberta.

Further information where available is on:

— the make of computers for which software products are developed

— the operating systems utilized by software products

— the programming languages in which software products are developed

This is followed by a description of the company based on supplied, edited materials.

C

USER RESPONSE

To more accurately provide company information relevant to users' and readers' needs, written responses are welcome concerning this directory: accuracy, clarity, coding, completeness, legibility, organization and retrieval.

Please forward any questions, comments, requests for additional copies or being included in the next survey to:

DIRECTOR, COMPUTERS AND SOFTWARE
TECHNOLOGY COMMERCIALIZATION
ALBERTA TECHNOLOGY RESEARCH AND TELECOMMUNICATIONS
11TH FLR., 10909 JASPER AVENUE
EDMONTON, ALBERTA T5J 3M8
TELEPHONE: (403) 422-0561

D

SUMMARY OF THE SURVEY OF THE SOFTWARE INDUSTRY IN ALBERTA

INTRODUCTION

During 1985, Alberta Economic Development, commissioned Axion Spatial Imaging Ltd., to conduct a survey of the software industry in Alberta, and to produce a directory of software firms in the province. To that end, some 950 firms in all fields of computing and related service industries, such as hardware vendors, time-sharing service companies, consulting firms and others, were surveyed through a mail-out questionnaire.

Some 224 firms responded to the four-part survey, 208 replies were used for the calculations and directory, the remaining 16 were received too late for inclusion. This figure, represents about 70 per cent of all the actual software firms operating in Alberta in 1985, estimated at about 300 firms.

From the survey results, a well-defined picture of the state of the Software Industry in Alberta can be discerned.

- **About 300 firms participate or have direct involvement in software development and production.**

- **The total revenues generated directly from software product sales of these firms is estimated at between $45 to $81 million. Processing services accounted between $44 to $73 million and professional services between $78 to $114 million.**

- **Exports of software products out of Alberta were an estimated $21 to $36 million, or about 47 per cent of total software sales.**

- **The firms surveyed represent some 884 persons employed in software development out of a total of 4,637 employees, or about 19% of the total personnel.**

- **It is estimated that in 1985, some 1,300 Albertans were involved directly or indirectly in the software development industry.**

- **Sixty one per cent of the firms surveyed were owned wholly by Albertans, 31 per cent by other Canadians, while only 3.8 per cent were U.S. owned, the rest being controlled by a combination of Albertan, other Canadians and U.S. interests.**

- **63 per cent of the firms surveyed operate with less than seven employees, while about 37 per cent operate with one to three employees.**

- **In 1985, the average firm produced revenue from software products alone between $150,000 to $270,000 within Alberta, and exported between $71,000 to $120,000 to other provinces, the U.S. and the rest of the world.**

- **The surveyed firms are predominantly young with over 45 per cent of the firms less than five years old.**

- **54% of the firms are Calgary based, 39% Edmonton based, and 7% are based in other centres.**

- **Some 273 software product types were identified and divided into seven major categories.**

- **Business-based software was by far the most common, followed by system software and scientific and engineering software.**

SOME HIGHLIGHTS FROM THE SURVEY

A few of the results from the survey are highlighted below.

1. GEOGRAPHIC DISTRIBUTION OF FIRMS

From the addresses given, the distribution of firms by geographic location was predominantly Edmonton and Calgary-based, accounting for over 82 per cent of all firms surveyed.

TABLE 1. Distribution of Firms by Geographic Location

Location	Firms	Percentage
Brooks	1	0.5%
Calgary	113	54.3%
Edmonton	82	39.4%
Edson	1	0.5%
Leduc	2	1.0%
Lethbridge	3	1.5%
Nisku	1	0.5%
Okotoks	1	0.5%
Red Deer	1	0.5%
Sherwood Park	1	0.5%
St. Albert	1	0.5%
Wetaskiwin	1	0.5%
Total	**208**	**100.0%**

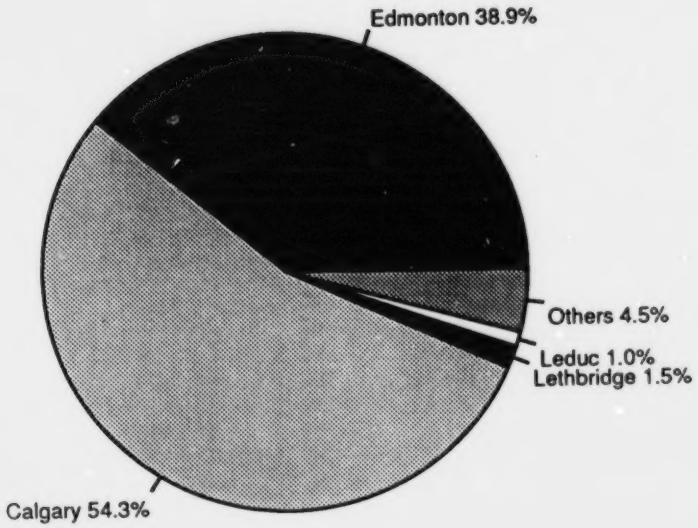


Figure 1. Distribution of Firms by Geographic Location

2. DATE OF INCORPORATION

Sixty-two per cent of the firms surveyed were established in the last five years.

TABLE 2. Distribution of Firms by Date of Incorporation

Period	Firms	Percentage
Pre-1970	16	9.3%
1970-1979	50	29.1%
1980	13	7.5%
1981	21	12.2%
1982	15	8.7%
1983	17	9.8%
1984	19	11.1%
1985	21	12.2%
Total	**172**	**100.0%**

3. EMPLOYMENT

Sixty-two per cent of the firms had less than seven employees, 37 per cent fewer than four

employees.

TABLE 3. Distribution of Firms by Number of Employees

Employees	Firms	Percentage
1	24	12.1%
2	29	14.6%
3	21	10.6%
4	22	11.1%
5	11	5.5%
6	11	5.5%
7	6	3.0%
8	8	4.1%
9	4	2.0%
10	6	3.0%
11-20	17	8.5%
21-30	8	4.1%
Over 30	31	15.6%
Total	**198**	**100.0%**

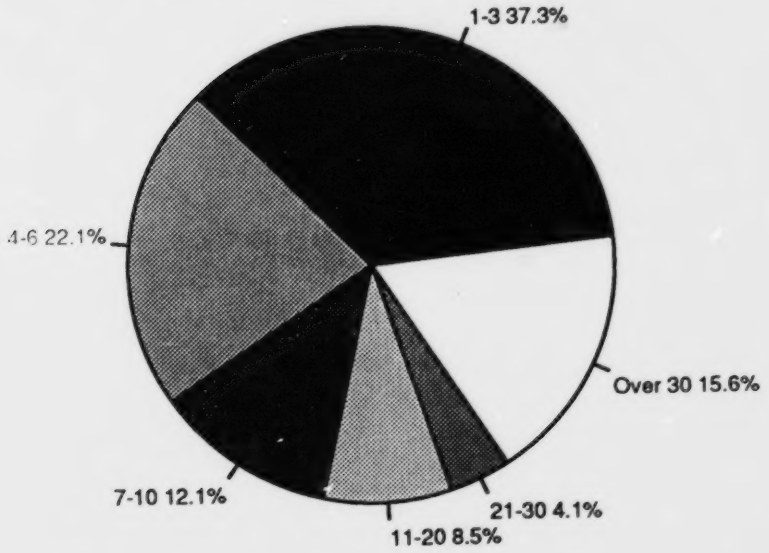


Figure 2. Distribution of Firms by Number of Employees

4. SOFTWARE PRODUCTS PRODUCED BY COMPUTER CLASS

Creating software products for microcomputers accounted for 46 per cent of the firms' software production thrusts.

TABLE 4. Distribution of firms by software products produced for different computer classes

Class of Computer	Firms	Percentage
Supercomputers	14	4.3%
Mainframes	56	17.4%
Minicomputer	104	32.4%
Microcomputers	147	45.8%

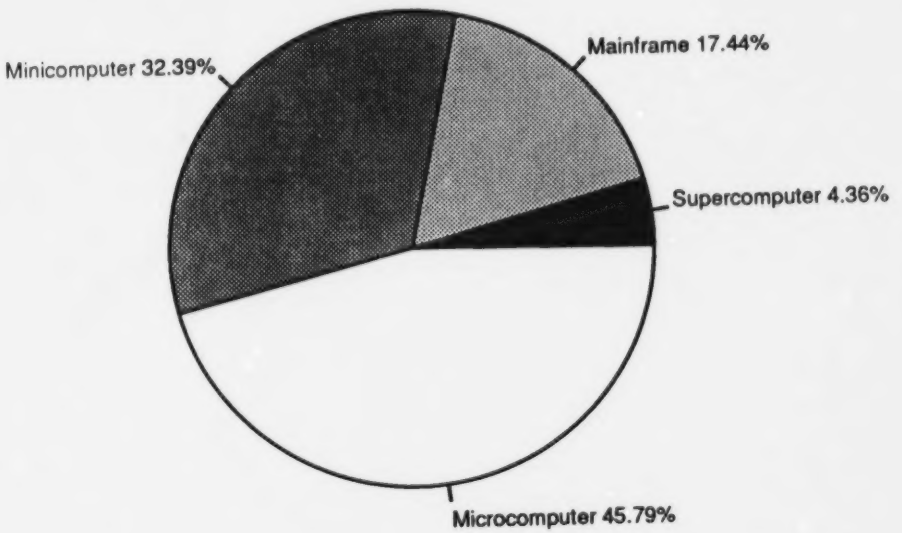


Figure 3. Distribution of firms by software products produced for different computer classes

6. REVENUES

The average revenue per firm from all Alberta sales for 1985 was between $978,667 and $1,544,800, of which software products accounted for $150,885 to $269,654. This represents between 15.4 to 17.4 per cent of company sales.

TABLE 5. Distribution of Revenues for Software Firms in 1985

	Average Revenue per firm		Total Revenue for all 177 firms		Total Revenue for 300 firms	
	MIN $	MAX $	MIN (in millions)	MAX	MIN (in millions)	MAX
Total Corporate Alberta Annual Sales all sources	$978,667	$1,544,800	$173.2	$273.3	$293.6	$463.4
Software products only	$150,885	$269,654	$26.7	$47.7	$45.3	$80.8
Processing services	$147,907	$246,100	$26.1	$43.5	$44.4	$73.8
Professional services	$261,503	$379,785	$46.2	$67.2	$78.5	$113.9
Other	$274,721	$478,850	$48.6	$84.7	$82.4	$143.6

** The 177 firms represent those surveyed that replied to this questionnaire.*
** The 300 firms represent the estimated Alberta total of firms participating in the software industry.*

E

NOTICES

This directory is based upon information given to, but not verified by Axion Spatial Imaging Ltd., or the Government of the Province of Alberta. The information is offered for your consideration, investigation and verification, and the above named parties disclaim any responsibility or liability whatsoever for costs or damages that a person may suffer in any manner whatsoever by making use of any part, or all of the information contained herein. The distribution of this directory and the appearance or absence of a company should not be construed as an endorsement or non-endorsement of a specific company, product or service.

This directory was produced by Axion Spatial Imaging Ltd. in cooperation with Alberta Economic Development. It was created on specially written XENIX-based [1] text-processing software developed by Axion Spatial Imaging Ltd. using an Apple LaserWriter [2] and PostScript commands.[3]

1. XENIX is a trademark of Microsoft Corporation.
2. Apple LaserWriter is a trademark of Apple Computer, Inc.
3. PostScript is a trademark of Adobe Systems, Inc.

Company Listing

COMPANY LISTING

ACT Computer Services Ltd.
AES Data Inc.
Abcom Computer Supplies Ltd.
Accubio Systems Ltd.
Advanced Data Systems
Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Edmonton)
Alberta Minicomputers Ltd. (Calgary)
Alphatel Computer Products
Alphatel Systems Ltd.
Anador Limited
Arcturus Software
Ashley Data Management & Storage Ltd.
Aspen Computing Solutions Ltd.
Auto Administrator Western Inc.
Axion Spatial Imaging Ltd.
B & B Computer Applications Ltd.
B & R Computer Services Ltd.
BRC Computer Services Ltd.
Banks-Isaak Systems Ltd.
Barry W. Ramer & Partners Ltd.
Bass Ticket Service Ltd.
Bell Technical Services Inc.
Beta-Cor Engineering Ltd.
Bolton & Associates Consulting Ltd.
Brand Computer Software Ltd.
Briskal Systems Ltd.
Burroughs Canada
C.L. Sibbald Agri-Marketing Ltd.
CBTS Computer Based Training Systems
CERI Energy Research Ltd.
CGE Calma
CMS Corporate Management Systems (Edmonton)
Calcomp Sanders (Canada) Inc.
Canadian Institute of Formation Evaluation
Candella Group
Canora Business Solutions Ltd.
Carswell Consulting Ltd.
Caulfield Engineering
Cipher Systems Ltd.
Coles Nikiforuk Pennell Associates
Colman, Organ and Company
Coment Logan Group
Comgen Software Services
Compudata Systems Consulting Inc.
Compudoc Systems Ltd.

Compudraft Services
Computek Ltd.
Computer Technologies
Computrex Centres Ltd.
Computronix
Comshare Limited
Comsoft Inc.
Comtech Group International Ltd.
Coopers & Lybrand
Corex Dataline Ltd.
Custom Micro Systems Ltd.
D. Atkinson & Associates
D.B. Robinson & Associates Ltd.
D.H. Casagranda Enterprises Ltd.
DMR & Associates Ltd.
DNA Computer Group Inc.
D & S Petroleum Consulting Group Ltd.
DSG Technical Programming Associates
Datek Industries Limited
Daviduk Associates
Dyad Data Services Ltd.
Dynamic Reservoir Systems Ltd.
Edmonton Data Centre
Edmonton Telephones Data Operations
Edupro Software
F.G. Bercha & Associates (Alberta) Ltd.
FitzPatrick Engineering Limited
Fluor Canada Ltd.
Francysco Consulting Ltd.
G. Michaels Consulting
G.A. Madden & Associates Ltd.
GFX Computer Productions Ltd.
Galo Systems Group Ltd.
Geo-Slope Programming Ltd.
Geophysical Microcomputer Applications
Global Consulting
H.R. Ruitenbeck Resource Consulting
Haelcon Consulting Limited
Harrison Muirhead Systems Ltd.
Horner & Associates
Hyprotech Ltd.
I.P. Sharp Associates Limited
IMX Systems Corporation
Imperial Computing Ltd.
In-Fa-Pak
Infotel Consulting
Infotel Display Systems Canada Inc.
Inprotech Consulting Inc.
Instar Corporation
Inter-Soft Systems Ltd.

Ipexo Computerized Industrial Management System
J.A.V. Systems Development Ltd.
JDA Software Services Ltd.
K. Stuart Associates Ltd.
Kakari Systems Ltd.
Kevonic Controls Ltd.
Key Business Software Ltd.
Keyword Office Technologies
Kwok & Company Inc.
Laser Image Consulting
Laser Software Limited
Lawmax Corporation
Link Hospitality Ltd.
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MCT Microlink
MDS Quantel Canada Inc.
MJ Data Consultants (Alberta) Ltd.
MMS Managemrnt Services Ltd.
MacCosham Data Services Ltd.
MacKay Douglas Computing Ltd.
Mackereth Information Systems Ltd.
Magna IV Engineering Ltd.
Management Information Group
Management Science America (Canada) Ltd.
Martin & Company
McEwan and Associates Ltd.
Micro-Futures
Montech Data Systems Ltd.
Mounteer Data Share Ltd.
Myrias Research Corporation
Neotechnology Consultants Ltd.
Nichols Advanced Technologies Inc.
Northern Computer Logic Inc.
Novate Enterprises Inc.
Novatel Communications Ltd.
Ocelot Computer Services Inc.
PHH Engineering Ltd.
PSC Consulting Ltd.
PSI Energy Software (Canada) Inc.
Pansophic Systems of Canada Ltd.
Paper Chase Text Conversion Services
Peat, Marwick & Partners
Perkin-Elmer Canada Ltd.
Personal Computer Consulting Service
Petresim Engineering Ltd.
Phil Whiting Computer Systems Ltd.
Philip Fites & Associates
Price Waterhouse
Prime Computer of Canada Ltd.

Procom Computing Systems Inc.
Pronto Data Services
QRD Systems Consultants Ltd.
R.H.G. Holdings Ltd.
R.N. Christie Communications Consultants
R.W. May & Associates Ltd.
RE/SPEC Ltd.
Randall Carlton & Associates Ltd.
Resource Information Systems
Reynolds & Reynolds
Riley's Database International Ltd.
Rinax Systems Ltd.
Romark Ltd.
Roscom Software Services Ltd.
SRD Software Research & Development Corp.
Schema Systems Limited
Scientific Software-Intercomp
Servnex Computer Systems Ltd.
Simtech Consulting Services Ltd.
Sittel Microsystems Ltd.
Soft Options
Software Integration Services
Softworld Consulting Associates
Southern Computer Services Ltd.
Star Technologies Ltd.
Starbase Technologies Inc.
Statcom Ltd.
Streamline Software Systems Ltd.
Sunearth Architectural Studio Ltd.
Synerlogic Inc.
Systems West Consultants Ltd.
Systems Plus
Technical Services Group
Teknica Resource Development Ltd.
Telephone Exploration Ltd.
The Datatron Group
The Decision Division
The McElhanney Group Ltd.
The SNC Group
Thirsk Computer Consulting
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Thorne Stevenson & Kellogg
Total Computers Ltd.
Unexsys Systems Inc.
University of Alberta Hospitals
Veritas Software Ltd.
Vertex System Resources Ltd.
Viatec Resource Systems Inc.
Visitech Graphic Resources Inc.

Walford & Foy
Watson Computer Products Inc.
Westacott Software Limited
Western Computing Ltd.
Westra & Associates Inc.
Wighton C.A.I. Services
Willowglen Systems Ltd.
Wise Software Solutions
Year/ Scan
Yellowhead Datapro
259943 Alberta Limited

Company Profiles

■ ACT Computer Services Ltd.

11735 - 170 Street,
Edmonton, Alberta,
T5M 3W7

Telephone: (403) 451 5555

- *Branch Offices:*
  Calgary: (403) 234 7858
- *Principal Officers:*

  Peter Magrath, *President and Chief Executive Officer*
  Robert Day, *Vice President, Marketing*
  Pat W. Perpeluk, *Vice President, Finance and Administration*

- *Established in:* 1971
- *Number of Employees in Alberta:* **Over 30**
- *Make of computers software developed for:*
  - *Mainframe:* IBM, Amdahl, UNIVAC
  - *Minicomputer:* IBM, DEC
- *Operating systems software developed for:*
  - *Mainframe:* MS-DOS, MDS, VM, OS, Exec
- *Programming languages software developed in:*
  - *Mainframe:* DL1, CICS, PMS, TIPS, COBOL, IDMS, ADABASE, IMS
  - *Minicomputer:* RPG

ACT Computer Services Ltd., is an Edmonton based and owned company that has dedicated itself to providing state-of-the-art computer services to business, industry and government, both locally and internationally for over fifteen years.

The company was founded in 1971 with the current senior management acquiring 100% interest in January 1983.

The business focus of ACT is twofold: The provision of computing and information services that are reliable, secure and easy to use.

ACT's Shared Processing Services feature IBM and compatible hardware and software, featuring IBM's premier operating systems which are suitable for large systems requiring a mix of both batch and online services.

The majority of ACT's clients process applications of a commercial nature. Many of these applications are custom programmed applications, developed and installed by ACT's programmer-analyst staff. When developing software, ACT utilizes sophisticated development methodologies and techniques as well as providing fixed price quotations, and guaranteeing production performance. Companies throughout the world have selected ACT to provide their applications software and are constantly returning to ACT for additional systems and consulting services.

Clients processing on ACT's data centre are often augmenting their own in-house system or in many cases are using ACT on a 'facilities management' basis. With the Facilities Management approach,

ACT takes responsibility for all hardware acquisition, space requirements for machines, backup facilities, operators, software problems, network control, etc. Leaving the client concerned with only the management of their business.

The development and marketing of software products

In recent years ACT has specialized in the development and support of computer information systems for the end-user. ACT is presently marketing three major software products which have gained international reputations.

The ABSTRACT system, developed by ACT in collaboration with the Alberta Bureau of Statistics, is an integrated statistical database system providing a timely and cost-effective means of obtaining detailed public or private economic data. Totally user-friendly, ABSTRACT is a prompt-driven system providing for input, retrieval, statistical analysis, tabulation, reporting and graphing of data.

The DMICS (Dealer Management Information Control) system services the needs of the equipment sales, parts and service sales, accounting and credit departments of any dealer/distribution business.

Similarly the MESIS (Mobile Equipment Services Information) System allows the Fleet Manager absolute control over all his assets and the control of costs before the fact rather than by analysis after the cost has been incurred. Using sophisticated modelling techniques, the system tracks equipment from the acquisition planning stage through to final disposal.

ACT's software products have been installed in the United States, Venezuela, Great Britain, Germany, Australia, Italy and Spain and have satisfied a variety of functional needs for companies ranging from the small equipment dealer to the large multi-national corporation. These systems are now in use in over 100 cities throughout the world.

In summary, ACT Computer Services Ltd., is a team of approximately 90 data processing professionals whose skill-sets span a wide spectrum of computer technology expertise and business experience. Our dedication to innovation, commitment and excellence has earned us an international reputation for performance.

■ AES Data Inc.

400, 10010 - 106 Street,
Edmonton, Alberta,
T5J 3L8

Telephone: (403) 423 3694

- *Head Office:*

  600, 100 Alexis Nihon Blvd.
  St. Laurent, Quebec, H4M 2P2
  Telephone: (514) 744 6711

- *Branch Offices:*

  Calgary: (403) 265 4910
  Winnipeg: (204) 943 8621
  Vancouver: (604) 689 0041

- *Principal Officers:*

  Ken Gibson, *President*
  Robert Habert, *Vice President*
  Pierre Deschamps, *Vice President*

- *Established in:* 1974
- *Number of Employees in Alberta:* **Over 30**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* UNIX
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* Basic

AES is a hardware manufacturer which develops its own software for word and text processing. We also supply third party software for IBM micro and compatibles. All the products we sell are designed for the office automation industry. We do not sell specific vertical market applications per se. But what we do sell pertains to most office applications.

■ Abcom Computer Supplies Ltd.

1716 - 105 Street,
Edmonton, Alberta,
T6J 5A9

Telephone: (403) 436 5130

- *Principal Officers:*

  Shannon Nelson, *President*

- *Established in:* 1982
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Mainframe:* Data General
  - *Minicomputer:* Data General, MAI
  - *Microcomputers:* Data General
- *Operating systems software developed for:*
  - *Minicomputer:* RDOS, AOS
- *Programming languages software developed in:*
  - *Mainframe:* C Basic, SM Basic
  - *Minicomputer:* C Basic, SM Basic
  - *Microcomputers:* C Basic, SM Basic

The firm specializes in package and custom software in the accounting, retail and transportation areas.

■ Accubio Systems Ltd.

298 Kaska Road,
Sherwood Park, Alberta,
T8A 4G7

Telephone: (403) 464 5655

- *Principal Officers:*

  G. Marcelli, *President*

- *Established in:* 1985

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* INT. Basic

The firm specializes in estimating and project management software for the construction industry; with particular emphasis to the electrical, mechanical and general contractor.

■ Advanced Data Systems

109, 2915 - 21 Street N.E.
Calgary Alberta,
T2E 7T1

Telephone: (403) 250 2560

- *Head Office:*

  3032 Louise Street,
  Saskatoon,
  Saskatchewan, S7J 3L8
  Telephone: (306) 373 8063

- *Branch Offices:*

  Toronto: (416) 673 2223

- *Principal Officers:*

  Dallas Howe, *President*
  Paul Riome, *Manager, Business Systems*

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Mainframe:* CADO ATS 6A
  - *Minicomputer:* CADO ATS 16, ATS 8
  - *Microcomputers:* CADO AT 4, IBM-XT/ AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* TIGER OS
  - *Minicomputer:* TIGER OS
  - *Microcomputers:* TIGER OS

- *Programming languages software developed in:*
  - *Mainframe:* CADOL
  - *Minicomputer:* CADOL
  - *Microcomputers:* CADOL

■ Agri-Trends Research Inc.

145, 6815 - 8th Street N.E.
Calgary, Alberta,
T2E 7H7

Telephone: (403) 295 2995

- *Principal Officers:*

  Lloyd Quantz, *President*

- *Established in:* 1985

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/ AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic

The primary focus of our software is the agricultural sector. Knowledge in the science of agriculture is emphasized. We specialize in farm software and software for agri-businesses including lending and consulting institutions. The firm spends time analyzing the needs of the agriculture industry. This firm also gives extensive support to its dealers and customers. Our aim is to insure that the hardware and systems are being used to the full extent the user wants. Our prime concern is customer satisfaction.

■ Alberta Minicomputers Ltd. (Edmonton)

1414 - 168 Street,
Edmonton, Alberta,
T5M 3T9

Telephone: (403) 452 3507

- *Head Office:*
  800, 5902 MacLeod Trail South,
  Calgary, Alberta,
  Telephone: (403) 255 4545
- *Principal Officers:*
  R.F. Jickling, *Vice President*
- *Established in:* 1977
- *Number of Employees in Alberta:* **11-20**
- *Make of computers software developed for:*
  - *Minicomputer:* IBM 36, Honeywell
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* IBM, Honeywell
  - *Microcomputers:* MS-DOS, CP/M 85
- *Programming languages software developed in:*
  - *Microcomputers:* Cobol, Basic

The firm specializes in commercial accounting applications - packages and custom modifications. All general accounting packages available are programmed in Cobol. Primary hardware is the Honeywell DOS 6 and the IBM 36. Package Software available: accounts receivable, accounts payable, general ledger, payroll, order entry, inventory, job costing, and office automation.

■ Alberta Minicomputers Ltd. (Calgary)

800, 5920 MacLeod Trail South,
Calgary, Alberta,
T0L 1T0

Telephone: (403) 259 4545

- *Branch Offices:*
  Edmonton: (403) 452 3507

- *Principal Officers:*

  D.M. Robin, *President*
  Dale Parkinson, *Vice President*
  R.F. Jickling, *Secretary-Treasurer*

- *Established in:* 1977

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Minicomputer:* IBM, Honeywell
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* SSP, GCOS, MOD 400
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* Cobol

The firm specializes in the following:

— Custom packaged and developed software for the commercial market place.

— Complete turnkey services provided.

— Selected hardware also provided offering a single source supplier.

■ Alphatel Computer Products

11428 - 168 Street,
Edmonton, Alberta,
T5M 3T9

Telephone: (403) 452 0025

- *Principal Officers:*

  Robert A. Abell, *President*
  Evelyn A. Abell, *Manager*

- *Established in:* 1981

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* Apple II, IIe, IIc

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, David DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic, Assembler

Alphatel Computer Products, a division of Rovell Enterprises, specializes in the provision of educational software and computer products for education, primarily in the K-12 area. In addition to providing a very wide array of software from most major publishers, Alphatel also publishes, distributes and markets several Alberta developed software packages including library management, teacher utilities, and instructional (CAI) software.

■ Alphatel Systems Ltd.

11430 - 168 Street,
Edmonton, Alberta,
T5M 3T9

Telephone: (403) 451 5761

- *Principal Officers:*

  Robert Abell, *President*
  J.M. Richmond, *Vice President*

- *Established in:* 1981

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Mainframe:* UNIX based computers
  - *Minicomputer:* DEC, Convergent Technologies

- *Operating systems software developed for:*
  - *Mainframe:* UNIX
  - *Minicomputer:* UNIX
  - *Microcomputers:* UNIX, QNX, Apple

- *Programming languages software developed in:*
  - *Mainframe:* C, Pascal
  - *Minicomputer:* C, Pascal
  - *Microcomputers:* C, Pascal

Alphatel Systems Ltd. specializes in the custom design of interactive Videotex information, training and directory systems. Videotex provides animated, high impact, graphic displays or "pages" in a full range of colours. Each page can contain a combination of text and graphic information and is stored in computer memory. Pages can be accessed by "users", on demand, via "interaction" with a videotex terminal.

Alphatel Systems Ltd., also provides consulting services, product development, applications software, courseware and equipment for the general field of technology-based education and training with an emphasis on computer, videotex and laser videodisc applications.

Alphatel services include:

— Videotex systems analysis and design

— Videotex page design and creation
— Custom software design and installation
— Instructional and training systems design
— Instructional and training courseware production
— Technology assessments
— Hardware acquisition and installation
— Seminars and workshops on videotex applications
— Staff orientation and training
— Hardware system and data base maintenance

Alphatel products include:

— Micro and minicomputer based videotex page creation, page capture and page editing software systems
— An integrated microcomputer-videotex training system
— Specialized videotex information systems and data bases
— Computer controlled interactive videotex and videodisc display software and systems
— Educational applications software and courseware

Alphatel Systems Ltd., is a full service videotex company able to analyze your information needs and design systems to respond to them.

■ Anador Limited

10366 - 172 Street,
Edmonton, Alberta,
T5S 1G9

Telephone: (403) 483 2727

- *Principal Officers:*

  W.J.G. Johnston, *President*
  R.L. Bond, *Secretary-Treasurer*

- *Established in:* 1977

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Mainframe:* Data General
  - *Minicomputer:* Data General
  - *Microcomputers:* Data General

- *Operating systems software developed for:*
  - *Mainframe:* AOS, VS
  - *Minicomputer:* AOS, RDOS
  - *Microcomputers:* RDOS, MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Cobol
  - *Minicomputer:* Cobol

The firm specializes in turnkey on-line inventory control systems for the automotive after-market parts business. This system consists of modules for point of sale invoicing, purchase orders, back orders, cores, sales history, physical inventory, inter-store transfers and numerous reports and listings.

Stand-alone or integrated accounts receivable, accounts payable or general ledger software packages for the general business environment.

■ Arcturus Software

2332 Palisade Drive S.W.
Calgary, Alberta,
T2V 3V1

Telephone: (403) 251 0710

- *Principal Officers:*

  John McNamee, *President*

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* Apple, Commodore

- *Programming languages software developed in:*
  - *Microcomputers:* Basic

Arcturus Software primarily provides custom software and modifies existing software to suit client's needs. Currently a church accounting (tax receipt) system is in operation in a church in south east Calgary. Church collections and over 700 envelopes are processed weekly and tax receipts are generated whenever desired.

A program for the petroleum industry is also being developed. It will be mostly of interest to petroleum consultants and companies involved in exploration.

■ Ashley Data Management and Storage Ltd.

4221 - 42B Street N.E.
Calgary, Alberta,
T2E 1V9

Telephone: (403) 250 1119

- *Principal Officers:*

  Harold Ashley, *President/General Manager*
  Glenn Hughes, *Controller*

- *Established in:* 1977

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Mainframe:* DEC
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* RSTS
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic

Ashley Data Management & Storage Ltd., as the name implies, is in the business of data management and storage. We are currently using a DEC mainframe to control inventory by client and develop software necessary to provide a descriptive summary of the nature and amount of inventory on IBM microcomputers.

■ Aspen Computing Solutions Ltd.

5, 4620 - Manilla Road S.E.
Calgary, Alberta,
T2G 4B7

Telephone: (403) 287 3466

- *Principal Officers:*

  C. Marx, *President*

- *Established in:* 1980

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Supercomputer:* UNIX based
  - *Mainframe:* UNIX based
  - *Minicomputer:* UNIX based
  - *Microcomputers:* XENIX based

- *Operating systems software developed for:*
  - *Supercomputer:* UNIX
  - *Mainframe:* UNIX
  - *Minicomputer:* UNIX
  - *Microcomputers:* XENIX, MS-DOS

- *Programming languages software developed in:*
  - *Supercomputer:* C, Cobol
  - *Mainframe:* C, Cobol
  - *Minicomputer:* C, Cobol
  - *Microcomputers:* C, Cobol

Aspen Computing Solutions has developed the very high quality Fastrack Accounting and Financial Applications Software.

Emphasis has been placed on software development for UNIX/XENIX based multi-user systems. Fully integrated packages include General Ledger, Accounts Payable, Financial Reporter, Accounts Receivable, Inventory, Bank Reconciliations, Job Costing, Canadian Payroll and Inventory Control.

■ Auto Administrator Western Inc.

201, 1601 Westmount Road N.W.
Calgary, Alberta,
T2N 3M2

Telephone: (403) 270 0893

- *Principal Officers:*

  Rick Hernder, *President*
  Ray Schoepter, *Secretary-Treasurer*
  Peter Horwood, *Vice President*

- *Established in:* 1984

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, UNIX

- *Programming languages software developed in:*
  - *Microcomputers:* Foxbase

The firm specializes in the development, sales and support of complete accounting and billing systems for governmental and non-profit organizations. All development on single and multi-user based microcomputer systems. Emphasis is placed on providing the complete solution (turnkey) systems in rural or remote locations.

■ Axion Spatial Imaging Ltd.

301, 10240 - 124 Street,
Edmonton, Alberta,
T5N 3W6

Telephone: (403) 488 3565

- *Principal Officers:*

  Tomislav Milinusic, *President*

- *Established in:* 1984

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* VAX-780
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* UNIX
  - *Microcomputers:* XENIX, MS-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* C, Pascal, Fortran 77, APL
  - *Microcomputers:* C, Pascal

Axion Spatial Imaging Ltd., is a specialized computer-oriented consulting and research development firm whose principal interests include advanced computer graphics, digital image-processing, remote-sensing, spatial analysis, geographic information systems, computer-assisted cartography, scientific computing, and electronic publishing.

The firm provides custom software in the above mentioned fields and has developed several geographic referencing systems for oil and gas exploration, mining, and mapping database retrieval applications.

It also specializes in UNIX (XENIX) multi-user, multi-tasking software development, particularly as it applies to the publishing industry.

■ B and B Computer Applications Ltd.

4 Deersaxon Road S.E.
Calgary, Alberta,
T2J 6W1

Telephone: (403) 278 9505

- *Principal Officers:*

  Gary Biagioni, *President*
  Janet Biagioni, *Secretary-Treasurer*

- *Established in:* 1981

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* HP, Perkin Elmer, Data General,
  - *Microcomputers:* Apple, IBM, 6800, 68000, HP, PDP, Modicor

- *Operating systems software developed for:*
  - *Minicomputer:* MP/ADS, UNIX
  - *Microcomputers:* MDOS, MT32, UNIX, MS-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* C, Pascal, Fortran, Basic, Assembler
  - *Microcomputers:* C, Pascal, Fortran, Basic, Assembler, Forth

B and B Computer Applications Ltd., formerly Computer Applications Consulting Services, is an Alberta Corporation which has been offering electrical engineering and software expertise in Alberta since 1979.

B and B supplies systems and consulting in real-time data acquisition, communications, digital signal processing, graphics and mapping. B and B provides custom and turn-key systems solutions.

■ B and R Computer Services Ltd.

7041 Farrell Road S.E.
Calgary, Alberta,
T2H 0T3

Telephone: (403) 258 0308

- *Principal Officers:*

  Bruce Peyton, *President*
  Robert Moule, *Secretary-Treasurer*

- *Established in:* 1982

- *Number of Employees in Alberta:* **1-3**

The firm specializes in servicing of microcomputers, Micom word processors, printers, etc. On-site or walk-in service is available.

■ BRC Computer Services Ltd.

540, 840 - 6 Avenue S.W.
Calgary, Alberta,
T2P 3E5

Telephone: (403) 294 1888

- *Principal Officers:*

  K.R. Bissett, *President*
  R.G. Munro, *Vice President*
  W.T. Wilson, *Vice President*

- *Established in:* 1985
- *Number of Employees in Alberta:* **4-6**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* Fortran 77

BRC Computer Services Ltd., is a Canadian computer services company active in consulting, training, and the development of software products for the Petroleum Industry. The company specializes in applications for drilling and operations personnel. Products are available for tasks in both technical and non-technical areas.

BRC Computer Services Ltd., is supported by the technical staff of Bissett Resource Consultants Ltd., a diversified Canadian Engineering Consulting firm providing engineering, project management, and field supervision services throughout Western Canada. Through these two companies, clients are assured that the company marketing the software has the technical experience to ensure quality, and the commitment to provide on-going support to users. All of the software developed is thoroughly tested and employed in day-to-day operations within Bissett Resource Consultants Ltd., before introducing the product to the market.

Currently, two software packages are available, the Drilling AFE Cost Estimator™ and the Casing Management System.™

The following additional programs are under development or slated for development:

Drilling Applications

— Daily Drilling Report Mangement System
— Well Cost Management System
— Cementing Management System
— Drill String Management System (with Hydraulics)
— Daeviation Management System

— Well Control Management System

Production Operations Applications

— Completions AFE Cost Estimator
— Tubing Management System
— Well Pumping Management System

■ Banks-Isaak Systems Ltd.

11735 - 170 Street,
Edmonton, Alberta,
T5M 3W7

Telephone: (403) 454 0210

- *Principal Officers:*

  J.P. Banks, *President*
  J.I. Isaak, *Vice President*

- *Established in:* 1985

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Minicomputer:* IBM S/36 and S/38

- *Operating systems software developed for:*
  - *Minicomputer:* S/36 SSP, S/38 CPF
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* RPGII and III

Banks-Isaak Systems Ltd., is an Edmonton based consulting company providing a wide variety of computer services to the Alberta business sector. We stress quality hardware and software with complete local implementation and ongoing, after installation, support. Primary emphasis is placed on both large and small minicomputer solutions.

Banks-Isaak Systems can assist you in acquisition and installation of both hardware and software. Our fully trained, experienced staff have installed and supported numerous computer operations in Alberta, British Columbia, Manitoba, North West Territories and parts of the United States.

The NWT Airline Management System is a fully integrated computer system designed to operate on the IBM S/36 minicomputer. This extensive software package consists of five major modules:

— Passenger Revenue Accounting
— Cargo Revenue Accounting
— Accounts Receivable
— Accounts Payable
— General Ledger

The NWT Airline Management System is the ideal solution for full computerization of all administrative and accounting activities for small and medium sized regional air carriers. Primary emphasis is placed on control of all revenue and expense activities, in order to assume accurate collection and payment of all funds. The system follows I.A.T.A. and A.C.H. standards.

■ Barry W. Ramer and Partners Ltd.

3440, 205 - 5th Avenue S.W.
Calgary, Alberta,
T2P 2V7

Telephone: (403) 266 2220

- *Branch Offices:*
  Houston, Texas: (713) 785 4056
- *Principal Officers:*
  Barry Ramer, *President*
- *Established in:* 1982
- *Number of Employees in Alberta:* **21-30**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/ AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* UNIX, S/ 36
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Minicomputer:* Cobol, RPG
  - *Microcomputers:* DBASE III

The firm markets EDP Solutions and services in Western Canada.

■ Bass Ticket Service Ltd.

300, Sunlife Place,
Edmonton, Alberta,
T5J 3H1

Telephone: (403) 424 6597

- *Branch Offices:*
  Calgary: (403) 261 0320

- *Principal Officers:*

  M. Tighe, *Manager*
  E. Unverricht, *EDP Manager*

- *Established in:* 1978

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Minicomputer:* Digital
  - *Microcomputers:* Apple

- *Operating systems software developed for:*
  - *Minicomputers:* RSTS/E
  - *Microcomputers:* ProDOS

- *Programming languages software developed in:*
  - *Minicomputer:* Basic, Assembler
  - *Microcomputers:* Assembler

Bass Tickets provides full service computerized ticketing capabilities to its clients. Included in these services are on-line ticket sales through a network of outlets, hard copy ticket printing, and season ticket name and address storage and printing.

Bass also provides EDP services such as accounting, mail, fund raising, storage and processing, and specialized terminals for client use for general office word processing, spreadsheets, database management, and communications.

■ Bell Technical Services Inc.

339 - 58 Avenue S.E.
Calgary, Alberta,
T2H 0P3

Telephone: (403) 255 5377

- *Head Office:*

  270 Yorkland Blvd.
  Willowdale, Ontario, M2H 1R8
  Telephone: (416) 491 9606

- *Branch Offices:*

  Vancouver: (604) 736 4561
  Montreal: (514) 382 0340

- *Principal Officers:*

  Robert Cheriton, *President*
  Ian Galbraith, *Director*
  Donald Smith, *Director*

- *Established in:* 1985
- *Number of Employees in Alberta:* **7-10**

■ Beta-Cor Engineering Ltd.

P.O. Box 5398, Stn. E
Edmonton, Alberta,
T5E 4C9

Telephone: (403) 482 1561

- *Principal Officers:*

  Morgan Barnes, *President*

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* Wang 2200
  - *Microcomputers:* Wang PC, IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* Wang 2200 OS
  - *Microcomputers:* MS-DOS, XENIX

- *Programming languages software developed in:*
  - *Minicomputer:* Basic 2
  - *Microcomputers:* ASM, Pascal, C, Basic, Fortran

Our main focus is the design, development and support of turnkey and custom software applications.

We have directed our R & D to software development tools which we in turn use to develop applications. These tools will be made available to the public at a future date.

Our application specialization lies in the area of computerized preventive maintenance, job costing, scheduling and daycare systems.

■ Bolton and Associates Consulting Ltd.

10731 Willowfern Drive S.E.
Calgary, Alberta,
T2J 1R3

Telephone: (403) 271 6128

- *Principal Officers:*

  R.J. Bolton, *President*
  G.E. Bolton, *Secretary*

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Mainframe:* CDC Cyber 8XX
  - *Minicomputer:* HP
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* NOS
  - *Minicomputer:* UNIX
  - *Microcomputers:* MS-DOS, CP/M

- *Programming languages software developed in:*
  - *Mainframe:* Fortran, C, Basic
  - *Minicomputer:* Fortran, C, Basic
  - *Microcomputers:* Fortran, C, Basic

Our primary activity is the design and implementation of Petroleum Exploration related computing systems including hardware selection, software acquisition and software creation for special applications.

We also have expertise in all aspects of microcomputer implementation in most scientific and business activities.

A secondary activity involves market study and analysis for computing companies wishing to enter the Petroleum market with specific projects, particularly graphics oriented computer applications such as workstations.

■ Brand Computer Software Ltd.

11723 Jasper Avenue,
Edmonton, Alberta,
T5K 0N4

Telephone: (403) 482 3683

- *Principal Officers:*

  H.M. Brand, *President*
  Josephine Brand, *Secretary*

- *Established in:* **1981**

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Mainframe:* Point 4 Data Corp.
  - *Minicomputer:* Point 4 Data Corp.

- *Operating systems software developed for:*
  - *Mainframe:* IRIS
  - *Minicomputer:* IRIS

- *Programming languages software developed in:*
  - *Mainframe:* Basic
  - *Mainframe:* Basic

The firm specializes in medical office software, direct billing to Alberta Health Care by magnetic tape, service bureau services, total accounting package for medical management, general ledger, and word processing. We are also a distributor for Point 4 Data Corporation.

American medical network hookups. Purchase, rental, lease purchase, timesharing, batch processing, complete service, maintenance, and ongoing support are included.

■ Briskal Systems Ltd.

7515 Mount Lawn Road,
Edmonton, Alberta,
T5B 4J1

Telephone: (403) 474 0403

- *Principal Officers:*

  Walter Ridgway, *President*
  Cathy Olson, *Secretary*

- *Established in:* 1981

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* DEC, IBM, Alphanisco
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* RSTS/E, SSP, ANDS
  - *Microcomputers:* CP/M, MS-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* Basic Plus 2, ROG, Alphabasic
  - *Microcomputers:* RM Cobol

Briskal Systems Ltd., is a computer consulting firm dedicated to serving small and medium-sized business since 1981. Our primary expertise is in the area of custom business application programming.

We work on a wide range of mini and microcomputers and have extensive experience with many different operating systems and programming languages. Much of the software which we have developed is available as packages. We also provide advice and assistance for companies that are considering computerization for the first time, and/or companies considering the upgrading or replacement of existing computer systems.

■ Burroughs Canada

7, 4001 - 19 Street N.E.
Calgary, Alberta,
T2J 4A5

Telephone: (403) 250 7174

- *Head Office:*

  2001 Sheppard Avenue E.
  North York,
  Ontario, M2J 4Z7
  Telephone: (416) 495 0515

- *Branch Offices:*

  Vancouver
  Edmonton
  Winnipeg
  Toronto
  Montreal
  Halifax

- *Principal Officers:*

  T.I. Csathy, *President*

- *Established in:* 1984

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Mainframe:* Burroughs
  - *Minicomputer:* Burroughs
  - *Microcomputers:* Burroughs

- *Operating systems software developed for:*
  - *Mainframe:* BTOS
  - *Microcomputers:* BTOS, MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Cobol, Algol, Fortran
  - *Microcomputers:* Basic, Fortran, Cobol, Pascal

The firm specializes in the following:

— **System software**
— **Application software**
— **Lines of business**
— **Health**
— **Finance and Banking**

— Manufacturing and distribution
— Education
— Government
— Medium to large scale mainframes
— Microcomputers
— Languages - 4th generation - LINC, 3rd generation - Fortran, Cobol

■ C.L. Sibbald Agri-Marketing Ltd.

141, 6815 - 8th Street N.E.
Calgary, Alberta,
T2E 7H7

Telephone: (403) 295 1000

- *Principal Officers:*

  C.L. Sibbald, *President*
  Joan Sibbald, *Secretary*

- *Established in:* 1985

- *Number of Employees in Alberta:* 1-3

- *Make of computers software developed for:*
  - *Supercomputer:* Cyber 205
  - *Mainframe:* Cyber 175

- *Operating systems software developed for:*
  - *Mainframe:* Network Operating System 175

- *Programming languages software developed in:*
  - *Supercomputer:* Fortran
  - *Mainframe:* Fortran

The firm specializes in space and airborne applications for agriculture.

■ CBTS Computer Based Training Systems

135, 6715 - 8 Street N.W.
Calgary, Alberta,
T2E 7H7

Telephone: (403) 275 1680

- *Principal Officers:*

  M.G. Massey-Hicks, *President*
  A. Stephen, *Vice President*

- *Established in:* 1982

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* Digital VAX

- *Operating systems software developed for:*
  - *Minicomputer:* VAX - VMS

- *Programming languages software developed in:*
  - *Minicomputer:* Fortran

CBTS - Computer Based Training Systems Ltd., is a Canadian company, based in Calgary, Alberta, dedicated to assisting educators and industrial trainers in making the best use of the new tools available to them through computer technology.

The company offers computer software products and consulting services to support the application of computer based learning systems in a wide variety of educational and industrial training situations.

Instructional Technology

Since its inception, CBTS has earned international recognition and acceptance for its work in educational research and development, and in particular, the development and implementation of computer based learning systems. Through the extensive experience of its principals, in both instructional technology and computer applications, the company brings together a unique set of qualifications and experience to help educators and industrial trainers adapt computer based learning systems to their specific needs. Collectively, senior personnel possess a comprehensive background in computers, education, electronics and industrial training, as well as educational administration and project management. Sensitive to the changing trends in education and training, CBTS is committed to continue its research and development activities upgrading its existing products and developing new products to meet client needs.

Products and Services

The computer software products developed by Computer Based Training Systems Ltd. have been designed to be adaptable to virtually any learning situation secondary, post-secondary, vocational or industrial. The products are also compatible with all teaching methods and curricula. From traditional classroom techniques to individualized, competency-based learning, computer based learning systems can assist with the delivery of instructional materials, as well as the management of the learning environment.

■ CERI Energy Research Ltd.

3512 - 33 Street N.W.
Calgary, Alberta,
T2L 2A6

Telephone: (403) 282-1231

- *Principal Officers:*

  Gerry Angevin, *President*
  Jacob Diddens, *Vice President, Business Development*
  Walter Haessel, *Vice President, Research*

- *Established in:* 1985

- *Number of Employees in Alberta:* **11-20**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* APL, IFPS/PERSONAL

CERI Energy Research Ltd., is a Calgary-based consulting firm involved in econometric analysis of the Canadian energy sector. With this specialized knowledge the firm has developed econometric modelling system(s) for the oil and gas, petroleum liquids and electricity sub-sectors. These models can be used for economic evaluations at the firm level and as policy tools for government bodies.

■ CGE Calma

205, 254 Midpark Way S.E.
Calgary, Alberta,
T2X 1M2

Telephone: (403) 256 7288

- *Head Office:*

  501 Sycamore Drive,
  Milipitas, California 95035, U.S.A.
  Telephone: (408) 434 4000

- *Branch Offices:*

  Toronto: (416) 365 6688

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* VAX, Data General, ECLIPSE,
  - *Microcomputers:* APOLLO, IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* VMS, CDOS
  - *Microcomputers:* MS-DOS, AEGIS

- *Programming languages software developed in:*
  - *Minicomputer:* Fortran
  - *Microcomputers:* Fortran

The firm specializes in CAE/CAD/CAM products for electronics, mechanical, manufacturing and AEC industries.

■ CMS Corporate Management Systems (Edmonton)

103, 11831 - 123 Street,
Edmonton, Alberta,
T5L 0G7

Telephone: (403) 455 8271

- *Principal Officers:*

  J.H. Hudson, *President*

- *Number of Employees in Alberta:* **Not available**

- *Make of computers software developed for:*
  - *Mainframe:* IBM

- *Operating systems software developed for:*
  - *Mainframe:* IBM

- *Programming languages software developed in:*
  - *Mainframe:* Cobol, Fortran, Database

The firm specializes in commercial Data Processing Service and Custom Application Programs.

■ Calcomp Sanders (Canada) Inc.

105, 1144 - 29 Avenue N.E.
Calgary, Alberta,
T2E 7P1

Telephone: (403) 250 5555

- *Head Office:*

  401 Champagne Drive,
  Downsview, Ontario, M3J 2C6
  Telephone: (416) 635 9010

- *Branch Offices:*
  Vancouver: (604) 270 6276
  Montreal: (514) 336 2624
  Ottawa: (613) 820 8463
- *Principal Officers:*
  Frank Roy, *President*
- *Established in:* 1974
- *Number of Employees in Alberta:* **4-6**
- *Make of computers software developed for:*
  - *Mainframe:* All major makes
  - *Minicomputer:* All major makes
  - *Microcomputers:* All major makes
- *Operating systems software developed for:*
  - *Mainframe:* Most
  - *Minicomputer:* Most
  - *Microcomputers:* Most

Calcomp Sanders specializes in the following:

Systems Division

— Software for turnkey interactive systems.

Graphics Division

— 12 major computers supported by custom plotter interfacing software.

— Other CPU's supported by a universal package.

■ Canadian Institute of Formation Evaluation

1100, 615 MacLeod Trail S.E.
Calgary, Alberta,
T2G 4T8

Telephone: (403) 294 1360

- *Principal Officers:*
  T.E. Carter, *President*
  S.B. Misner, *Executive Vice President*
- *Established in:* 1983
- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Minicomputer:* HP 3000
- *Operating systems software developed for:*
  - *Minicomputer:* MPE IV
- *Programming languages software developed in:*
  - *Minicomputer:* SPL, Fortran

The company creates a computerized drill stem test databank for use by engineers, geologists and geophysicists in evaluating oil and gas properties for exploration. The data is used for hydrodynamic evaluation and reservoir performance characteristics.

■ Candella Group

1615, 10104 - 103 Avenue,
Edmonton, Alberta,
T5J 0H8

Telephone: (403) 423 2619

- *Principal Officers:*

  Manbir Singh, *Partner*
  Garth Granger, *Partner*

- *Established in:* 1984
- *Number of Employees in Alberta:* **4-6**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, PC-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* DBASE III

The firm provides consulting systems design and development services to organizations wishing to implement microcomputer systems for business applications. Our primary application specifications include:

— Database and information management
— Accounting and Financial Systems
— Local Area Networking

■ Canora Business Solutions Ltd.

524, Oxford Tower, 10235 - 102 Street,
Edmonton, Alberta,
T5J 3G1

Telephone: (403) 421 8557

- *Principal Officers:*

  Casey Frans, *President*

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Mainframe:* Rexon, Altos
  - *Minicomputer:* Seiko, Esprit

- *Operating systems software developed for:*
  - *Minicomputer:* Recap, XENIX
  - *Microcomputers:* Thoroughbred

- *Programming languages software developed in:*
  - *Minicomputer:* Business, Basic
  - *Microcomputers:* Business, Basic, (MAI Compatible)

Canadian Business Solutions specializes in the development, sales and support of vertical market software written in Business Basic for property management firms and heavy construction.

General business accounting software can also be supplied and modified to suit the client for general ledger, accounts receivable, accounts payable, inventory, job costing and payroll. The property management package includes general ledger, accounts receivable, accounts payable and payroll.

The heavy construction package includes job costing, estimating, equipment maintenance and owner/operator payroll.

■ Carswell Consulting Ltd.

6725 Larch Court S.W.
Calgary, Alberta,
T3E 6E9

Telephone: (403) 240 4397

- *Principal Officers:*

  Duncan A. Carswell, *President*

- *Established in:* **1985**

- *Number of Employees in Alberta:* **1-3**

The firm specializes in the following:

For Exploration Companies:

— Software evaluation
— Software Sales, including supply of training and customer support
— Management Planning Assistance
— Custom Software

For Suppliers to the Exploration Industry:

— Market Studies
— Product evaluation
— Market Strategy Assistance
— Distribution Evaluation

■ Caulfield Engineering

P.O. Box 607,
Nisku, Alberta,
T0C 2G0

Telephone: (403) 955 7290

- *Branch Offices:*
  Fallschurch, Virginia: (703) 533 8777
  Houston, Texas: (713) 465 1087
- *Principal Officers:*
  D. Caulfield, *President/General Manager*
- *Established in:* 1975
- *Number of Employees in Alberta:* **7-10**
- *Make of computers software developed for:*
  - *Minicomputer:* HP 1000
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* CAD, MS-DOS
  - *Microcomputers:* CAD, MS-DOS
- *Programming languages software developed in:*
  - *Minicomputer:* Basic, Fortran
  - *Microcomputers:* Pascal, Assembler

Caulfield Engineering specializes in acquisition and processing of oceanographic data and the manufacture of related computer equipment. Its R & D efforts focus on the manufacture of specialty equipment and software to satisfy client requirements.

We also develop a standard line of electronic and computer equipment which can tolerate rugged use in oceanographic or other harsh environments.

■ Cipher Systems Ltd.

Box 963, Station T,
Calgary, Alberta,
T2H 2H4

Telephone: (403) 252 7569

- *Principal Officers:*

  C. McNeill, *President*
  H. Wiehler, *Vice President and Secretary-Treasurer*

- *Established in:* 1980
- *Number of Employees in Alberta:* **7-10**
- *Make of computers software developed for:*
  - *Minicomputer:* NCR
- *Operating systems software developed for:*
  - *Minicomputer:* NCR, UNIX
  - *Microcomputers:* UNIX
- *Programming languages software developed in:*
  - *Minicomputer:* Cobol
  - *Microcomputers:* Cobol

■ Coles Nikiforuk Pennell Associates,

1200, 444 - 5th Avenue S.W.
Calgary, Alberta,
T2P 2T8

Telephone: (403) 265 0650

- *Principal Officers:*

  D.A. Nikiforuk, *Treasurer*
  F.C. Coles, *President*
  R.M. Pennell, *Secretary*

- *Established in:* 1972
- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Minicomputer:* Prime, VAX
  - *Microcomputers:* TIPC, IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* PRIMOS
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Minicomputer:* Fortran
  - *Microcomputers:* Fortran, Basic

Coles Nikiforuk Pennell Associates are primarily involved in Oil and Gas reserve evaluation software development.

All current software is related to aspects of resource industry:

— Land management and mapping, database development and display of database information.

— Calculation and presentation of Oil and Gas in-place and reserves forecasting prices, flow performance and economics (cash flow).

— Use of Landsat imagery for topographic extraction and display

— Graphic display of all information used in evaluation process

— Utility software to tie existing packages together

— Gridding/volumetrics software to analyze ISOPACH maps, etc.

■ Colman, Organ and Company

500, 9707 - 110 Street,
Edmonton, Alberta,
T5K 2L9

Telephone: (403) 482 5751

- *Principal Officers:*

  Bill Gordon, *President*
  Dave Organ, *Vice President*
  Ian McCrum, *Vice President*

- *Established in:* 1975
- *Number of Employees in Alberta:* **11-20**
- *Make of computers software developed for:*
  - *Minicomputer:* Digital
  - *Microcomputers:* Altos, IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* RSTS
  - *Microcomputers:* XENIX, MPM, MS-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* Basic
  - *Microcomputers:* Basic

We are a Value Added Reseller (VAR) of business computer systems.

We design and develop COSTAR software products integrated systems for accounting, inventory and order entry, automotive, travel, advertising, and point-of-sale.

We provide training, installation and ongoing customer support.

We are suppliers of I.B.M., Digital, and Altos computer systems.

■ Coment Logan Group

1020, 444 - 5th Avenue S.W.
Calgary, Alberta,
T2P 2T8

Telephone: (403) 261 5012

- *Principal Officers:*

  A. Heslop, *President*
  K. Heslop, *General Manager*

- *Established in:* 1977

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* Convergent Technologies
  - *Microcomputers:* Convergent Technologies

- *Operating systems software developed for:*
  - *Minicomputer:* UNIX
  - *Microcomputers:* CTOS

- *Programming languages software developed in:*
  - *Minicomputer:* Fortran 77
  - *Microcomputers:* Fortran 77

The primary focus of the Comment Logan Group is the development of well log analysis software and related formation evaluation tools.

■ Comgen Software Services

2nd Flr, 7032 Farrell Road S.E.
Calgary, Alberta,
T2H 0T2

Telephone: (403) 252 6160

- *Principal Officers:*

  Bryan Hollens, *President*

- *Established in:* 1984
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Minicomputer:* IBM System / 34, / 36
- *Operating systems software developed for:*
  - *Minicomputer:* SSP
- *Programming languages software developed in:*
  - *Minicomputer:* RPG II

We provide professional computer consulting and custom programming software services for IBM systems / 34 and / 36.

Current software packages offered are for Pharmaceutical processing and Programmer Development Utilities.

Other software packages to be offered will be: Accounts Receivable, Accounts Payable, General Ledger and Payroll.

■ Compudata Systems Consulting Inc.

12 Rundlewood Bay N.E.
Calgary, Alberta,
T1Y 1B3

Telephone: (403) 285 5626

- *Principal Officers:*

  Theodore D. Gordyke, *President*
  Catherine M. Kletke, *Vice President*

- *Established in:* 1983
- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* Data General
  - *Microcomputers:* Altos, IBM
- *Operating systems software developed for:*
  - *Minicomputer:* RDOS
  - *Microcomputers:* CP/M, MPM, XENIX
- *Programming languages software developed in:*
  - *Minicomputer:* Cobol
  - *Microcomputers:* Cobol

Compudata Systems Consulting Inc., specializes in custom software development and markets fully developed and integrated systems to credit unions, accounting firms and insurance agencies.

The company offers a full ongoing maintenance program inclusive of training and procedures consultation on the various systems.

A qualified staff will design, develop and implement almost any custom financial accounting or banking system application for commercial software requirements.

■ Compudoc Systems Ltd.

316, 6707 Elbow Drive S.W.
Calgary, Alberta,
T2V 0E5

Telephone: (403) 255 1081

- *Principal Officers:*

  Allan Simon, *President*

- *Established in:* 1983
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* ALTOS, IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* CP/M, MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* C Basic

Compudoc specializes in microcomputer applications for medical offices. Both multi-user and single-user environments are addressed.

Specific applications include:

— AHC billing,

— scheduling,

— accounting and patient profiles.

■ Compudraft Services

620, 2424 - 4th Street S.W.
Calgary, Alberta,
T2S 2T4

Telephone: (403) 228 3538

- *Principal Officers:*

  Maurice Sunderland, *Director*
  Josephine Sunderland, *Managing Director*

- *Established in:* 1980

- *Number of Employees in Alberta:* **21-30**

- *Make of computers software developed for:*
  - *Minicomputer:* PDP 11/70

- *Operating systems software developed for:*
  - *Minicomputer:* RSX-11M+

- *Programming languages software developed in:*
  - *Minicomputer:* Fortran, IGDS

The firm specializes in CADD Services for Architecture and Engineering design and production drawings, mapping and seismic shot point basemap generation. Effective utilization of CADD technology in automation of maps, or drawings in any discipline.

■ Computek Ltd.

2, 8540 - 109 Street,
Edmonton, Alberta,
T6G 1E6

Telephone: (403) 432 7733

- *Principal Officers:*

  Alfred Falk, *President*

- *Established in:* 1975

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* Data General

- *Operating systems software developed for:*
  - *Minicomputer:* ROS, AOS, AOS/VS
- *Programming languages software developed in:*
  - *Minicomputer:* Fortran, Ratfor

Computek specializes in development of software for scientific and engineering applications, particularly real data acquisition and control.

We have experience on a variety of computer systems but most software is developed for Data General and DEC Systems.

■ Computer Technologies

916 - 8 Avenue S.W.
Calgary, Alberta,
T2P 1H8

Telephone: (403) 263 9993

- *Principal Officers:*

  Ba-Tien Duong, *President*
  Van-Ha Duong, *Consultant*

- *Established in:* 1978
- *Number of Employees in Alberta:* **4-6**
- *Make of computers software developed for:*
  - *Mainframe:* IBM 370, VAX
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Mainframe:* VM-CMS, TSO
  - *Microcomputers:* MS-DOS, UNIX
- *Programming languages software developed in:*
  - *Mainframe: C*
  - *Microcomputers:* C, Assembler

Our research company, Teconomics Inc., is an OEM in the microcomputer field and a software developer specializing in oil and gas, chemicals, economics and marketing. Computer Technologies specializes in computer applications and their markets through its fully equipped BUSINESS SUPPORT CENTRE. We bring together both research and industry knowledge, coupled with our committed services on what we sell, to form the best price/performance/service to microcomputer systems.

The firm provides complete packages of hardware, software, consulting, turnkey support and maintenance services.

■ Computrex Centres Ltd.

101, 808 - 4th Avenue S.W.
Calgary, Alberta,
T2P 0K4

Telephone: (403) 263 1190

- *Number of Employees in Alberta:* **Not available**

- *Make of computers software developed for:*
  - *Minicomputer:* Wang, DEC 11 series

- *Operating systems software developed for:*
  - *Minicomputer:* MS-DOS, RSX-11

The company specializes in computer graphics - both in plotting and microfische production.

The new term focus of the company is to develop systems and software for the Oil and Gas industry, utilizing massive database management and retrieval from (Laser) optical disk systems.

Export of products could be a potential should our R & D efforts succeed.

■ Computronix

17393A - 108 Avenue,
Edmonton, Alberta,
T5S 1G2

Telephone: (403) 483 9228

- *Principal Officers:*

  H. Levsink, *President*

- *Established in:* 1981

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Mainframe:* IBM
  - *Minicomputer:* Hewlett Packard
  - *Microcomputers:* Apple, IBM

- *Operating systems software developed for:*
  - *Mainframe:* MVS/JES 3
  - *Minicomputer:* MPE
  - *Microcomputers:* Macintosh, MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* JCL, Cobol, Assembler
  - *Minicomputer:* Cobol, Powerhouse
  - *Microcomputers:* Basic, Forth, DBASE

Our company specializes in providing consulting services to both general and specialized environments within the petrochemical industry, as well as to the general business community. We provide both custom design and construction of new systems efforts, and maintenance or modification of existing systems.

■ Comshare Limited

425 - 1st Street S.W.
Calgary, Alberta,
T2P 3L8

Telephone: (403) 234 7411

- *Head Office:*
  180 Atwell Drive,
  Rexdale, Ontario, M9W 6H4
  Telephone: (416) 675 6363

- *Branch Offices:*
  Vancouver: (604) 687 3244

- *Principal Officers:*

  Derek Price, *President*
  Ron McKerron, *Vice President, Finance and Administration*
  Ian Manteu, *Vice President, Operations*

- *Established in:* 1968

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Mainframe:* IBM, DEC
  - *Minicomputer:* HP 3000,
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* MVS/TSO, UM, CMS, VAX, VMS
  - *Minicomputer:* HP Operating system
  - *Microcomputers:* MS-DOS, UNIX

- *Programming languages software developed in:*
  - *Mainframe:* Pascal, Fortran
  - *Microcomputers:* Pascal, C

Comshare is a major provider of end-user computing software, professional services, and timesharing for large and medium-size organizations.

Comshare software helps clients use the computer to improve managerial productivity and efficiency via its commander executing information systems with decision support technology, and profiles human resources product lines.

■ Comsoft Inc.

400, 12230 - 106 Avenue,
Edmonton, Alberta,
T5N 3Z1

Telephone: (403) 482 5857

- *Principal Officers:*

  T. Orcetsky, *President*
  D. Keech, *Vice President*

- *Established in:* 1983

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Assembler, DBASE II

Comsoft Inc. has directed its major business activities toward the development of a fully integrated accounting system for microcomputers, due to the dramatic increase in the number of small business relying on microcomputers. The resulting accounting system, ABACUS, is completely integrated and includes: general ledger, accounts receivable, accounts payable, inventory, order entry, payroll, time billing, job accounting and custom reports.

ABACUS is a real-time system which utilizes relatively inexpensive mass-storage. The real-time system provides accurate and timely information on a daily (or even hourly) basis; there is no need to close out the accounting cycle to produce the information needed in today's high speed, high technology business community. Mass storage (hard disks) allows for the retention of a full fiscal year's financial detail on-line for immediate recall. Comsoft has also developed several vertical modules, for specialized industries, which integrate directly with ABACUS. These include a property management system, an insurance agency system, and a complete job costing system. A stand-alone Canadian payroll system is also available.

■ Comtech Group International Ltd.

2107 - 87th Avenue,
Edmonton, Alberta,
T6P 1L5

Telephone (403) 464 7121

- *Head Office:*

  380, 5 Fairview Mall Drive,
  Willowdale, Ontario, M2J 2Z1

- *Branch Offices:*

  Vancouver
  Montreal
  Waterloo

- *Principal Officers:*

  Marvin Gogal, *Branch Manager*
  Ian Affleck, *Sales Manager*

- *Established in:* 1972

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Mainframe:* DEC
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* RSTS
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Basic Plus II
  - *Microcomputers:* Basic

The firm's major function is providing computer solutions to business problems. These are addressed primarily with time-sharing but, among many other options, we also offer micro solutions or the sale of software. In some cases, a combination is also used. The second major function is providing batch payroll services if time-shared payroll is not desired.

■ Coopers and Lybrand

2400, 255 - 5th Avenue S.W.
Calgary, Alberta,
T2P 3G6

Telephone: (403) 264 1111

- *Principal Officers:*

  R.J. Whitehead, *Partner in charge, Calgary Office*
  P.N. Huggard, *Partner in charge, Information Technology*

- *Established in:* 1910

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Mainframe:* IBM
  - *Minicomputer:* Prime, DEC
- *Operating systems software developed for:*
  - *Mainframe:* OS/VS variants with TSO, CMS/SP
  - *Minicomputer:* Primos/VMS
- *Programming languages software developed in:*
  - *Mainframe:* Model
  - *Minicomputer:* Model

■ Corex Dataline Ltd.

300, 10080 Jasper Avenue,
Edmonton, Alberta,
T5J 1V9

Telephone: (403) 423 0176

- *Principal Officers:*

  Paul McGee, *President*

- *Established in:* 1981
- *Number of Employees in Alberta:* **4-6**
- *Make of computers software developed for:*
  - *Mainframe:* Data General
  - *Minicomputer:* Data General
  - *Microcomputers:* Data General
- *Operating systems software developed for:*
  - *Mainframe:* Data General AOS/VS
  - *Minicomputer:* Data General AOS, AOS/VS
  - *Microcomputers:* Data General AOS
- *Programming languages software developed in:*
  - *Mainframe:* Fortran 77, Assembler
  - *Minicomputer:* Fortran, Assembler
  - *Microcomputers:* Fortran, Assembler

Corey Dataline is an on-line service bureau with capabilities in both the business and scientific mathematical engineering areas.

We also develop and support specialized software for most of the Data General product line, for use either on our Data General MV/8000 or on our clients own equipment, ranging from desk-top units to the largest systems supplied by Data General.

The firm also does media conversions and has unique expertise in the field of EDP auditing and EDP assisted auditing.

■ Custom Micro Systems Ltd.

16921 - 10B Street,
Edmonton, Alberta,
T5X 3B2

Telephone: (403) 456 0974

- *Principal Officers:*

  Dieter Fehlberg, *President*
  Mary Ann Fehlberg, *Secretary-Treasurer*

- *Established in:* 1981

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* Apple, Commodore

- *Operating systems software developed for:*
  - *Microcomputers:* DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic

The firm specializes in the development of leading, highest quality, long-life software for the international market. Equipment supported is Apple II family and Commodore 64 family, Apple DOS and PRODOS. Software is published by publishers abroad.

■ D. Atkinson and Associates

3404 - 25A Street N.E.
Calgary, Alberta,
T1Y 6C1

Telephone: (403) 291 2182

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* Basic Four

- *Operating systems software developed for:*
  - *Minicomputer:* BOSS III, IV, IX

- *Programming languages software developed in:*
  - *Minicomputer:* Basic

■ D.B. Robinson and Associates Ltd.

Edmonton Research and Development Park,
9419 - 20 Avenue,
Edmonton, Alberta,
T6N 1E5

Telephone: (403) 463 8638

- *Principal Officers:*

  D.B. Robinson, *President*
  H Karla, *Vice President*
  Frank Notle, *Manager, Marketing*

- *Number of Employees in Alberta:* **11-20**

- *Make of computers software developed for:*
  - *Mainframe:* IBM, VAX, UNIVAC
  - *Microcomputers:* IBM-PC

- *Operating systems software developed for:*
  - *Microcomputers:* PC-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Fortran
  - *Microcomputers:* Fortran

D.B. Robinson and Associates Ltd., offers a variety of services to the Petroleum and Petrochemical Industries. One area of our business is in the development and marketing of computer software to simulate and model a wide variety of the processes used in the production processing and transportation of petroleum and petrochemical materials.

The software is currently available on a number of mainframe timesharing systems. It is also available for use on IBM-PC compatible personal computers. The programs are currently in use by most of the major petroleum producing corporations throughout the world.

The company operates from its offices in Edmonton. It has marketing representatives in the United States, Britain and India. In conjunction with its software development activities, D.B. Robinson and Associates Ltd., also carries out an extensive petroleum engineering laboratory research program for a number of domestic and international clients. The company is also involved in the manufacture and export of specialized laboratory apparatus for petroleum research applications.

■ D.H. Casagranda Enterprises Ltd.

9567 Oakland Road S.W.
Calgary, Alberta,
T2V 4B8

Telephone: (403) 251 3671

- *Principal Officers:*

  D.H. Casagranda, *President*
  E.E. Casagranda, *Secretary-Treasurer*

- *Established in:* 1983

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-PC, Monroe 2000

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, CP/M, CCPM

- *Programming languages software developed in:*
  - *Microcomputers:* DBASE

The company's primary focus is the development and on-going support of a comprehensive dental management package covering all phases of patient processing, analysis, billing, insurance splits, insurance forms, AHC forms, letter writing, daily and monthly reporting, accounts receivable and practice management.

■ DMR and Associates Ltd.

1190, 700 - 9th Avenue S.W.
Calgary, Alberta,
T2P 3V4

Telephone: (403) 265 6001

- *Head Office:*

  1200, Avenue McGill College,
  Bureau 800, Montreal,
  Quebec, H3B 4G7
  Telephone: (514) 866 3301

- *Branch Offices:*

  Edmonton: (403) 423 2070
  Fredricton: (506) 458 8066
  Halifax: (902) 422 1541
  Jonquire: (Quebec) (418) 543 6529
  Kitchener: (519) 745 1350
  Moncton: (506) 855 9180
  Ottawa: (613) 238 2697
  Quebec: (418) 653 6881
  Regina: (306) 525 5265
  Saint John: (506) 642 7242
  Toronto: (416) 363 8661
  Vancouver: (604) 699 9077
  Victoria: (604) 384 8118
  and other offices in Los Angeles, Wellesley Hills, Massachusetts, Melbourne and Sydney, Australia, and London, England.

- *Principal Officers:*

  Gary Hadford, *Managing Partner*
  Dean Sharrat, *Consulting Partner*

- *Established in:* 1973

- *Number of Employees in Alberta:* **Over 30**

DMR and Associates is a group of corporations operating worldwide in the field of information management and technology, providing professional service in:

— strategic planning
— management consulting
— applied research
— education
— project management
— systems development and implementation
— product development
— technical support
— facilities management

DMR and its employees maintain full independence from all hardware, software, and computer service suppliers.

■ DNA Computer Group Inc.

5917 - 1A Street S.W.
Calgary, Alberta,
T2H 0G4

Telephone: (403) 253 9442

- *Principal Officers:*

  G.M. Freund, *President*
  R.W. Jahnke, *Vice President*
  D.B. McIntosh, *Treasurer*

- *Established in:* 1981

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Minicomputer:* Honeywell, DEC, IBM
  - *Microcomputers:* Honeywell, DEC, IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* PICK
  - *Microcomputers:* PICK

- *Programming languages software developed in:*
  - *Minicomputer:* Data Basic
  - *Microcomputers:* Data Basic

DNA Computer Group Inc., provides application software for all PICK operating system computers.

Specifically we support PICK on the IBM PC-XT, PC-AT, and compatibles.

Our application software is fully menu-driven with meaningful help screens at every function and every prompt. It features single source entry with instant update of all files.

All applications are available for general business functions and custom software design is willingly undertaken to suit particular needs.

■ D & S Petroleum Consulting Group Ltd.

700, 125 - 9th Avenue S.E.
Calgary, Alberta,
T2G 0P6

Telephone: (403) 268 6500

- *Principal Officers:*

  P.E. den Hartog, *Chairman*
  W.G. Fisher, *President*
  M.S. Abougoush, *Executive Vice President*

- *Established in:* 1964

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Supercomputer:* CDC Cyber 205
  - *Mainframe:* IBM 43XX, 308x, 309x
  - *Minicomputer:* DEC VAX
  - *Microcomputers:* IBM-XT/AT and Compatibles, DEC MICROVAX, HP Series 200, 300
- *Operating systems software developed for:*
  - *Mainframe:* VM/CMS, MVS
  - *Mainframe:* VMS
  - *Minicomputer:* PC-DOS, micro VMS
- *Programming languages software developed in:*
  - *Supercomputer:* Fortran
  - *Mainframe:* Fortran
  - *Minicomputer:* Fortran, Cobol, Basic
  - *Microcomputers:* Basic

The D & S Group is a multi-discipline company which offers professional consulting services, software products, and computer services to the petroleum industry on a world-wide basis.

Services include all aspects of exploration, drilling, development, production, economics, reservoir engineering, enhanced recovery, computer modelling, and project management.

■ DSG Technical Programming Associates

221, 6715 - 8th Street N.E.
Calgary, Alberta,
T2E 7H7

Telephone: (403) 275 9124

- *Principal Officers:*

  Darwin Engwer, *President*
  Randy Grieg, *Vice President*

- *Established in:* 1983
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* Cromemco, IBM
- *Operating systems software developed for:*
  - *Microcomputers:* CP/M, Cromix, MS DOS
- *Programming languages software developed in:*
  - *Microcomputers:* C

Microcomputer consultants specializing in real time and communications software for microcomputers.

■ Datek Industries Limited

8522 Davies Road,
Edmonton, Alberta,
T6E 4Y5

Telephone: (403) 465 1530

- *Principal Officers:*

  P.J. Van der Zee, *General Manager*

- *Established in:* 1971

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Minicomputer:* DEC
  - *Microcomputers:* Datek Proprietary

- *Operating systems software developed for:*
  - *Minicomputer:* RSX 11
  - *Microcomputers:* RMX 88/86

- *Programming languages software developed in:*
  - *Minicomputer:* Fortran, Basic
  - *Microcomputers:* PL/M, Assembler

Datek manufactures real time measurement and control systems for resource and other industrial applications. Typical systems are turnkey in nature, with hardware and software both normally manufactured by the firm.

■ Daviduk Associates

204, 9054 - 51 Avenue,
Edmonton, Alberta,
T6E 5X4

Telephone: (403) 468 2888

- *Principal Officers:*

  E. Michael Daviduk, *President*
  F. Scott Montgomery, *Vice President*

- *Established in:* 1981

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* PC-DOS, MS-DOS

Daviduk Associates is a firm of chartered accountants who analyze user needs to enable us to install the correct product to handle financial and accounting needs.

Our primary emphasis is on top quality financial and accounting software which operates in both single user and multi-user environments.

We also distribute specialized products such as the Canada Systems Group, T1 and T2 income tax packages.

■ Dyad Data Services Ltd.

3855 - 64 Avenue S.E.
Calgary, Alberta,
T2C 2V6

Telephone: (403) 236 3923

- *Principal Officers:*

  C.A. Henry, *President*
  Norm Pascal, *Secretary-Treasurer*

- *Established in:* 1977
- *Number of Employees in Alberta:* **Over 30**
- *Make of computers software developed for:*
  - *Minicomputer:* Texas Instruments
- *Operating systems software developed for:*
  - *Minicomputer:* DNDS
- *Programming languages software developed in:*
  - *Minicomputer:* Fortran, Assembler

The firm develops software primarily for in-house use, on our own computer systems. Our company specializes in magnetic tape technology with emphasis on geophysical data tape formats.

We also store geophysical data and are building a complete data base system of seismic lines to be displayed on remote terminals in clients' offices.

■ Dynamic Reservoir Systems Ltd.

1630, 505 - 3rd Street S.E.
Calgary, Alberta,
T2P 3E6

Telephone: (403) 264 2343

- *Principal Officers:*

  P. Forsyth, *President*
  P. Sammon, *Vice President*

- *Established in:* 1985

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Supercomputer:* Cray
  - *Mainframe:* IBM, DEC
  - *Minicomputer:* IBM, DEC
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Supercomputer:* Fortran

The firm specializes in the development and marketing of reservoir simulation software for micro and minicomputers.

■ Edmonton Data Centre

421, 10113 - 104 Street,
Edmonton, Alberta,
T5J 1A1

Telephone: (403) 423 3503

- *Principal Officers:*

  D. Wallace, *President*
  C. DePape, *Secretary*

- *Established in:* 1978

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* Data General, Basic 4, Point 4
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* AOS, RDOS, B405, IRIS
  - *Microcomputers:* PC-DOS, MS-DOS, UNIX
- *Programming languages software developed in:*
  - *Minicomputer:* SM Basic/BGN
  - *Microcomputers:* Softgold basic, MS Basic

The firm specializes in the following:

— providing software to solve business problems utilizing mini/microcomputers independently or combined

— totally integrated traditional accounting applications, plus class 2 mailing systems, subscription management, people power for placement agencies, membership control and time management

— buy/lease or process in a batch or online basis for our service bureau

■ Edmonton Telephones Data Operations

10044 - 108 Street,
Edmonton, Alberta,
T5J 2R4

Telephone: (403) 428 3282

- *Principal Officers:*

  G.R. Foster, *General Manager*
  B.R. Gibson, *Data Operations Branch Manager*

- *Established in:* 1905
- *Number of Employees in Alberta:* **Over 30**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, UNIX

Edmonton Telephones Data Operations is active in the data communications and microcomputer market place as a distributor of applications software running under DOS and UNIX.

■ Edupro Software

P.O. Box 1216
Edmonton, Alberta,
T5J 2M4

Telephone: (403) 458 0303

- *Branch Offices:*
  Calgary: (403) 239 6738
- *Principal Officers:*
  Sam Barsoumain, *Managing Partner*
  Alec Fleming, *Managing Partner*
- *Established in:* 1982
- *Number of Employees in Alberta:* **4-6**

EDUPRO Software is a distributor of quality educational and business software to end users including school jurisdictions, schools, businesses and individuals. By following closely a variety of evaluation services, EDUPRO attempts to carry only the best in educational and business software. Products are carried for a variety of microcomputers including IBM, Apple and Commodore. Consumables such as printer ribbons and blank diskettes are also carried.

■ F.G. Bercha and Associates (Alberta) Ltd.

301, 1220 Kensington Road N.W.
Calgary, Alberta,
T2N 3P5

Telephone: (403) 270 2221

- *Principal Officers:*
  F.G. Bercha, *President*
  V.L. Shaw, *Vice President*
- *Number of Employees in Alberta:* **7-10**
- *Make of computers software developed for:*
  - *Mainframe:* CDC, Honeywell, IBM
  - *Microcomputers:* IBM, HP, Apple
- *Operating systems software developed for:*
  - *Mainframe:* VOS, NOS, Multics

- *Programming languages software developed in:*
  - *Mainframe:* Fortran, Pascal
  - *Microcomputers:* Basic, Pascal, Fortran

F.G. Bercha through its engineering, systems and environmental expertise, is involved in the development of advanced technology solutions to problems in arctic engineering, risk analysis and simulation.

Through a subsidiary, the company has been actively involved in remote sensing including the analysis and enhancement of digitized data from airborne sensors and the operation of active downlink systems.

Software products include automated radar imaging algorithms, advanced numerical solutions to structural mechanics and ice engineering problems, probabilistic analysis of arctic structures, risk and consequence analysis, and Monte Carlo modelling of operations and environmental phenomena.

These products have been developed for a variety of hardware configurations from microcomputers to supercomputers in the form of both user friendly software and research software.

A number of products have utilized advanced graphics techniques for the enhancement of results. Extensive documentation is normally provided with custom-developed software.

■ FitzPatrick Engineering Limited

11124 - 54A Avenue,
Edmonton, Alberta,
T6H 0W2

Telephone: (403) 438 1581

- *Principal Officers:*

  A. FitzPatrick, *President*

- *Established in:* 1984

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Mainframe:* Amdahl
  - *Minicomputer:* IBM
  - *Microcomputers:* Custom design

- *Operating systems software developed for:*
  - *Mainframe:* CAL
  - *Minicomputer:* CAL
  - *Microcomputers:* Custom design

- *Programming languages software developed in:*
  - *Mainframe:* Fortran, APL
  - *Minicomputer:* Fortran, APL
  - *Microcomputers:* Custom, Assembler

The firm develops mathematical and computer models of complex systems. We have experience in the

design and manufacture of microelectronic control systems for specific applications in mechanical engineering.

We can provide start-up to finished product R & D assistance. Training of personnel in new technologies can be provided.

■ Fluor Canada Ltd.

10101 Southport Road S.W.
Calgary, Alberta,
T2J 4B4

Telephone: (403) 259 1110

- *Principal Officers:*

  A.B. McArthur, *President*
  S.A. Thomson, *Secretary*

- *Number of Employees in Alberta:* **Not available**

- *Make of computers software developed for:*
  - *Mainframe:* IBM 43XX, 30XX, VAX
  - *Minicomputer:* IBM System / 36
  - *Microcomputers:* IBM-XT/ AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* MVS, VM
  - *Minicomputer:* SSP
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Cobol
  - *Minicomputer:* RRG 11
  - *Minicomputer:* Cobol

The firm specializes in Plant Maintenance Product - Computerized Maintenance Management System (CMMS).

This system incorporates the functions of work order tracking, job planning and scheduling, stores inventory control, preventive/predictive maintenance and history analysis into a comprehensive program for managing the material and labour resources required for a successful plan maintenance operation.

■ Francysco Consulting Ltd.

302, 9809 - 110 Street,
Edmonton, Alberta,
T5K 2J9

Telephone: (403) 488 8695

- *Principal Officers:*

  Frances Hornby, *President*

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Mainframe:* IBM, AMDAHL

- *Programming languages software developed in:*
  - *Mainframe:* Cobol

■ G. Michaels Consulting

6307 - 125 Street,
Edmonton, Alberta,
T6H 3V8

Telephone: (403) 438 2101

- *Principal Officers:*

  G. Michaels, *President*

- *Established in:* 1974

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* Digital Equipment
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* RSX-II M Plus

- *Programming languages software developed in:*
  - *Minicomputer:* Macro-II, Fortran
  - *Microcomputers:* Assembler

G. Michaels Consulting specializes in custom software and enhancements to real-time software packages including process control.

We support several large EMCON-D systems in Canada and the United States. Our enhancements have improved the speed, reliability and capability of these systems. The average experience of company personnel is six years in EMCON-D and eight years in DEC RSX environment.

■ G.A. Madden and Associates Ltd.

74 Bella Coola Drive,
Leduc, Alberta,
T9E 1S1

Telephone: (403) 986 9226

- *Principal Officers:*

  G. Madden, *President*
  C. Madden, *Secretary-Treasurer*

- *Established in:* 1981

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* DEC,
  - *Microcomputers:* DEC, IBM

- *Operating systems software developed for:*
  - *Minicomputer:* RSX 11M
  - *Microcomputers:* CP/M, MS-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* Assembler, C, Fortran
  - *Microcomputers:* Assembler, C, Basic

G.A. Madden and Associates is an Alberta based systems company which has been involved in a variety of software and hardware applications using the leading edge of todays computer technology.

We at G.A. Madden and Associates Ltd. specialize in providing a custom product of both hardware and software that can meet our customers exact requirements.

Hardware Applications

— Printers/Terminals
— Micro/Mini/Mainframe Computers
— Control and Measurement Instrumentation
— Computer Power Conditioning Equipment

Software Applications

— HVAC Process Control
— Environmental Monitoring
— Data Acquisition and Digital Process Control
— Maintenance Management
— Inventory Control
— Database Management
— General Custom Application Programs

■ GFX Computer Productions Ltd.

184, 3359 - 27 Street N.E.
Calgary, Alberta,
T1Y 5E4

Telephone: (403) 291 0262

- *Principal Officers:*

  J.L. Phipps, *President*
  B.Y. Phipps, *Vice President, Administration*
  S. Sompson, *Director, Marketing*

- *Established in:* 1982

- *Number of Employees in Alberta:* **7-10**

The firm specializes in utilizing high resolution graphics software and imaging recorders, GFX Computer Productions Limited, designs and creates visual images for speaker support, print, animation and display applications.

GFX also distributes the DICOMED PRESENTER (TM) PC Business Graphics Software.

■ Galo Systems Group Ltd.

220, 4014 MacLeod Trail South,
Calgary, Alberta,
T2G 2R7

Telephone: (403) 287 1121

- *Principal Officers:*

  Gary Lempert, *President*
  Lois Leinan, *Vice President*

- *Established in:* 1984

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Mainframe:* VAX, Wang
  - *Minicomputer:* IBM, Wang, Compaq,
  - *Microcomputers:* Micro-Vax

- *Operating systems software developed for:*
  - *Minicomputer:* VMS, Ultrix,
  - *Microcomputers:* MS-DOS, PC-DOS, XENIX

- *Programming languages software devcloped in:*
  - *Minicomputer:* Basic
  - *Microcomputers:* Basic

Galo is a vendor of quality software solutions that run on a wide range of hardware.

Our software line addresses the following vertical markets: construction, estimating, property management, distributor, point of sale, client accounting and tax.

Our solution also includes programmers utilities, integrated spreadsheets and word processing.

A fourth generation relational data base package with applications, which runs on numerous brands and sizes of hardware is pending. We also sell most of the hardware that our software supports. We are proud of our high training and post sales support.

■ Geo-Slope Programming Ltd.

7927 Silver Springs Road,
Calgary, Alberta,
T3B 4K4

Telephone: (403) 247 2633

- *Principal Officers:*

  Del Fredlund, *General Manager*
  Lorne Fredlund, *General Manager*

- *Established in:* 1978

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Mainframe:* IBM, CDC, UNIVAC, DEC
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* MVS, NOS, VMS

- *Programming languages software developed in:*
  - *Mainframe:* Fortran, P
  - *Microcomputers:* Fortran, Basic, Pascal

Geo-Slope is a company specializing in the design, development and support of computer software for the Geotechnical Engineering community.

■ Geophysical Microcomputer Applications

805, 603 - 7 Avenue S.W.
Calgary, Alberta,
T2P 2T5

Telephone: (403) 261 4025

- *Principal Officers:*

  G.R. Davidson, *President*
  R.E. Newman, *Secretary*

- *Established in:* 1982

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* C, Fortran, Basic

The firm specializes in the development and marketing of seismic modelling software implemented on microcomputers.

■ Global Consulting

11420 - 142 Street,
Edmonton, Alberta,
T5M 1V1

Telephone: (403) 452 5022

- *Principal Officers:*

  Russell Sawchuck, *President*

- *Established in:* 1985

- *Number of Employees in Alberta:* **1-3**

Global Consulting's two major thrusts are:

— consulting/contract services in the design, development, and production of microcomputer/videodisc software and systems for application in education, training, electronic merchandising and information management

— international marketing and distribution of both Global's and others videodisc based software products

■ H.R. Ruitenbeck Resource Consulting

1850, 500 - 4th Avenue S.W.
Calgary, Alberta,
T2P 2V6

Telephone: (403) 237 5153

- *Principal Officers:*

  H.J. Ruitenbeck, *President*

- *Established in:* 1981
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* Apple Macintosh
- *Operating systems software developed for:*
  - *Microcomputers:* Macintosh
- *Programming languages software developed in:*
  - *Microcomputers:* Basic, Pascal

The company focus is on custom-designer technical and educational packages in the areas of physics, engineering, and economics.

■ Haelcon Consulting Limited

P.O. Box 634,
Leduc, Alberta,
T9E 2Y4

Telephone: (403) 986 7671

- *Principal Officers:*

  Michael Nish, *President*
  Connie Peters, *Vice President*

- *Established in:* 1980
- *Number of Employees in Alberta:* **1-3**

■ Harrison Muirhead Systems Ltd.

101, 15023 - 123 Avenue,
Edmonton, Alberta,
T5L 4H8

Telephone: (403) 451 4596

- *Principal Officers:*

  B.C. Harrison, *President*
  T.A. Muirhead, *Secretary-Treasurer*

- *Established in:* 1984

- *Number of Employees in Alberta:* **11-20**

- *Make of computers software developed for:*
  - *Minicomputer:* NCR, ALTOS, CVT, SPERRY

- *Operating systems software developed for:*
  - *Minicomputer:* UNIX/XENIX
  - *Microcomputers:* UNIX/XENIX

- *Programming languages software developed in:*
  - *Minicomputer:* Cobol, C, Basic
  - *Microcomputers:* Cobol, C, Basic

Harrison Muirhead Systems specializes in the development and sales of vertical market products that are UNIX based and support the following industries:

— General/Trade Contractor
— Heavy Equipment Contractors
— Life Insurance
— Property Management
— Manufacturing
— Wholesale and Retail Distribution
— Rig Drilling Contractors
— Publishing and Newspapers
— General Integrated Accounting

■ Horner and Associates

273, 4919 - 59 Street,
Red Deer, Alberta,
T4N 6C9

Telephone: (403) 346 5545

- *Principal Officers:*

  Don Horner, *Director, Operations*

- *Established in:* 1984

- *Number of Employees in Alberta:* 1-3

- *Make of computers software developed for:*
  - *Minicomputer:* IBM, System /34 and /36
  - *Microcomputers:* IBM, DEC Rainbow

- *Operating systems software developed for:*
  - *Minicomputer:* SSP
  - *Microcomputers:* MS-DOS, CPM

- *Programming languages software developed in:*
  - *Minicomputer:* Cobol, RPG
  - *Microcomputers:* Basic, Cobol

Our company is interested in helping small/medium business in central Alberta to acquire a suitable computerized system. We are qualified to provide the following services:

— system analysis and design

— feasibility studies

— management consulting

— recommendation for purchase of hardware/software

— custom programming

— training in system operations and/or software maintenance

■ Hyprotech Ltd.

1700 Varsity East Drive N.W.
Calgary, Alberta,
T3B 2W9

Telephone: (403) 288 1718

- *Branch Offices:*

  Houston, Texas: (713) 780 7087
  Whittier, California: (213) 698 3242

- *Principal Officers:*

  W. Ysvrcek, *President*
  T. Vysniauskas, *Vice President*
  C.G. Morris, *Vice President*

- *Established in:* 1976

- *Number of Employees in Alberta:* 7-10

- *Make of computers software developed for:*
  - *Supercomputer:* IBM
  - *Mainframe:* IBM, VAX, PE, Prime
  - *Minicomputer:* Vax, PE, Prime
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Mainframe:* VMS
  - *Minicomputer:* UNIX, DST
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Mainframe:* Fortran, Ratfor
  - *Minicomputer:* Fortran, Ratfor
  - *Microcomputers:* Fortran, Ratfor, C

Hyprotech provides engineering and software services for the oil and gas industry. Its expertise is based on the thermodynamic predictions and flowsheet simulation of oil and gas processes for steady state and transient operation.

Hyprotech has developed and markets a proprietary flowsheet simulator called HYSIM that can be used for flowsheet simulation of any oil and gas process. The package is available on any mainframe or minicomputer system as well as on personal computers.

The program is unique in that it is the only interactive simulator and is available on virtually any system. It has become very popular in the engineering community assisting up to 400 different companies around the world.

■ I.P. Sharp Associates Limited

2358 Principal Plaza, 10303 Jasper Avenue,
Edmonton, Alberta,
T5J 3N6

Telephone: (403) 428 6744

- *Head Office:*

  Suite 1900, Exchange Tower,
  First Canadian Place,
  Toronto, Ontario, M5X 1E3
  Telephone: (416) 364 5361

- *Branch Offices:*

  Calgary: (403) 265 7730
  Halifax: (902) 423 6251
  Montreal: (514) 866 4981
  Ottawa: (613) 236 9942
  Vancouver: (604) 687 8991
  Victoria: (604) 388 6365
  Other offices in the U.S.A, Europe, Australia and Asia

- *Principal Officers:*

  Ian P. Sharp, *Chief Executive Officer*
  W.E. Thomson, *President*
  Scott Remborg, *Edmonton Branch Manager*

- *Established in:* 1965

- *Number of Employees in Alberta:* 7-10

- *Make of computers software developed for:*
  - *Mainframe:* IBM, Amdahl
  - *Minicomputer:* DEC
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* MVS, MVS/VAX, DOS/VSE
  - *Microcomputers:* PC-DOS

- *Programming languages software developed in:*
  - *Mainframe:* APL, 360 Assembler
  - *Minicomputer:* Fortran
  - *Microcomputers:* APL, C, 8088 Assembler

I.P. Sharp Associates is an international communications and software company that has been responding to the diverse needs of business, government and industry for over 20 years.

I.P. Sharp's varied and ever growing product line encompasses software for both mainframe and personal computers, an international communications network, the world's largest collection of online business data and SHARP APL. By integrating these technologies, I.P. Sharp is helping business meet the challenges of the global marketplace.

Software - I.P. Sharp is a leader in software development with particular expertise in real-time systems for international banking, the investment and securities industries, semiconductors manufacturing facilities, emergency service organizations, and products for both information and development centres.

Network - IPSANET, I.P. Sharp's private packet-switched network, provides local dial access from over 600 cities worldwide via any computer terminal or personal computer.

Data - I.P. Sharp is one of the world's largest providers of online numeric information, specializing in financial, economic, energy, banking and aviation data.

SHARP APL - APL is a powerful, concise, highly productive programming language. SHARP APL is the ideal language for integrating disparate information processing technologies into an effective Global Information Centre.

■ IMX Systems Corporation

402, 9203 MacLeod Trail South,
Calgary, Alberta,
T2H 0M2

Telephone: (403) 259 2478

- *Branch Offices:*

  Marina Del Rey,
  California, U.S.A.: (213) 823 4577

- *Principal Officers:*

  David C. Dummer, *President*
  Janice Cluff, *Vice President*

- *Established in:* 1977

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* Hewlett Packard

- *Operating systems software developed for:*
  - *Minicomputer:* MPE

- *Programming languages software developed in:*
  - *Minicomputer:* SPL

■ Imperial Computing Ltd.

839 - 6 Avenue S.W.
Calgary, Alberta,
T2P 0V3

Telephone: (403) 269 6626

- *Established in:* 1976

- *Number of Employees in Alberta:* **7-10**

- *Programming languages software developed in:*
  - *Microcomputers:* Basic, C, Fortran, DBASE

■ In-Fa-Pak

Box 882,
Okotoks, Alberta,
T0L 1T0

Telephone: (403) 938 7117

- *Principal Officers:*

  William McFarlane, *President*

- *Established in:* 1980

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* Radio Shack

- *Operating systems software developed for:*
  - *Microcomputers:* CP/M

- *Programming languages software developed in:*
  - *Microcomputers:* M Basic

In-Fa-Pak offers insurance agencies the following features:
— up to 3,000 clients on line
— up to 6,200 policies on line
— invoicing and aged accounts receivable on line
— individual and mass marketing capabilities
— all your general ledger and accounting requirements
— a comprehensive word processor and retrieval package
All at an affordable price.

■ Infotel Consulting

16007 - 80th Avenue,
Edmonton, Alberta,
T5R 3M5

Telephone: (403) 484 3120

- *Principal Officers:*

  Michael Schneider, *President*

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* Zenith

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic

The firm's telecommunication management system contains programs that are directed to business using a telephone switching system such as a PABX (switchboard) or a KEY system. Management has a need for more detailed information on the calls made in order to either:

— Reduce the number of unnecessary outside calls
— Allocated call costs to departments and/or individuals
— Find new services that will reduce costs
— Make and update a company telephone directory
— Determine needs for new equipment

Three packages are available:

— Station activity reports
— Costs allocation
— Corporate costs management and directory

The programs are limited to Alberta-based services and business. Installation on other than Zenith microcomputers can be arranged.

■ Infotel Display Systems Canada Inc.

516, 9707 - 110 Street,
Edmonton, Alberta,
T5K 2L9

Telephone: (403) 482 1571

- *Branch Offices:*
  Moosejaw, Saskatchewan: (306) 694 4977
- *Principal Officers:*
  Blaire Jones, *President*
- *Established in:* 1984
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Minicomputer:* Intel, Scientific Micro Systems
  - *Microcomputers:* Second Source
- *Operating systems software developed for:*
  - *Minicomputer:* Vorte, INTEL RMX-86
- *Programming languages software developed in:*
  - *Minicomputer:* Vortex
  - *Microcomputers:* PLM-86

Infotel Display Systems Canada Inc., is a Videotex software design company specializing in public access and user friendly information systems.

The company will design turnkey integrated systems for corporate or government applications and for

service companies for public access information advertising systems.

Our systems software are compatible with touch screen, laser disc, credit card reader and coupon printer technologies.

■ Inprotech Consulting Inc.

300, 2421 - 37th Avenue N.E.
Calgary, Alberta,
T2E 6Y7

Telephone: (403) 250 1736

- *Principal Officers:*

  L.J. Gidzinski, *President*

- *Established in:* 1981

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Microcomputers:* Xerox 1108, IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* LISP, MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* LISP, Prolog

Inprotech Consulting Inc., is an Alberta based private company owned and managed from Calgary.

Inprotech Consulting Inc., (hereinafter called ICI) was incorporated on November 7, 1980. The purpose of ICI is to carry on the business of providing consulting services in all fields of computer technology and information processing, and to undertake research and development programs in all fields of computer technology, and information processing.

ICI specializes in:

— contract Software Research and Development for specific commercial applications

— state-of-the-art Consulting for information processing systems and office management

— independent contract Project Management for large automation systems development

The current Research and Development Project of ICI is to develop and market a Software Product Family named SIERRA for use initially as a systems analyst tool in defining user requirements of computer systems.

ICI's business plan projects the development of an entire series of software products which will provide Expert Systems to define, develop and automatically program the software required to deliver an operable system to the end-user or client.

■ Instar Corporation

141, 6815 - 8th Street N.E.
Edmonton, Alberta,
T3E 7H7

Telephone: (403) 275 3143

- *Principal Officers:*

  Clifford Anger, *President*
  Graham Irving, *Manager*

- *Established in:* 1983

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* DEC
  - *Microcomputers:* IBM-XT/ AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* UNIX
  - *Microcomputers:* MS-DOS, UNIX, XENIX

The firm specializes in: optical disk technology.

Services/ Products

— Custom Systems
— Consulting
— Optical disk based magnetic tape drive emulator.
— Optical Disk Interface Kits

■ Inter-Soft Systems Ltd.

21B, 6020 - 2nd Street S.E.
Calgary, Alberta,
T2H 2L8

Telephone: (403) 255 2022

- *Principal Officers:*

  Jim Burney, *President*
  Ray Keam, *Vice President*

- *Established in:* **1985**

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles, ALTOS

- *Operating systems software developed for:*
  - *Microcomputers:* XENIX

- *Programming languages software developed in:*
  - *Microcomputers:* RM-Cobol

Inter-Soft Systems Ltd., is a software research and development company specializing in hospitality business application software products.

The company is presently involved in developing a cost effective property management system. The typical system targeted for small and medium sized hotels, is a low-cost, interactive, fully integrated front and back office turnkey system, interfacing with major food and beverage point of sales systems.

The company expects the first phase (reservation and front desk modules) to be released in early second quarter of 1986. The package is hardware independent, and will run on IBM-PC/AT and other compatibles using multi-user XENIX operating system.

The company's head office is located in Calgary, Alberta, and employ's an R & D staff of six qualified software professionals.

■ Ipexo Computerized Industrial Management Systems

204, 1212 - 1st Street S.E.
Calgary, Alberta,
T2G 2H8

Telephone: (403) 269-8378

- *Principal Officers:*

  Werner Brock, ***President***

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* Altos Supermicros, IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* UNIX, XENIX, MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers: Cobol, C*

IPEXO, a small growing company in Alberta since 1982, provides complete computerized management systems for companies in manufacturing, construction and industrial services.

The applications include:

— Accounting Systems with 'Canadian Payroll'
— Database Management
— Spreadsheets
— Word Processing
— Customer Order Entry
— Manufacturing Resource Planning 'MRP'
— Inventory Management
— Communications
— Project Estimating
— Critical Path Analysis
— Work-in-Progress Management
— Bar Coding
— CAD/CAM - Micro-aided Engineering software

The focus is mainly using Altos UNIX/XENIX based multi-user systems and IBM and DEC compatible equipment for cost effectiveness and reliability. IPEXO uses leading North American proven software systems and adapts with custom programming to suit specific local needs.

IPEXO provides full requirements consultation, system design and implementation with user orientation sessions, staff training and complete local service.

■ J.A.V. Systems Development Ltd.

15 Silverstone Bay N.W.
Calgary, Alberta,
T3B 4Y8

Telephone: (403) 288 6164

- *Principal Officers:*

  John Verrall, *President*
  Sharon Verrall, *Secretary*

- *Established in:* 1981

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Mainframe:* IBM, PDP

- *Operating systems software developed for:*
  - *Mainframe:* O/S, RSTS

- *Programming languages software developed in:*
  - *Mainframe:* Basic

The firm specializes in the development of on-line interactive production accounting systems for oil and gas producing companies.

■ JDA Software Services Ltd.

445, 10655 Southport Road S.E.
Calgary, Alberta,
T2W 4Y1

Telephone: (403) 278 6254

- *Principal Officers:*

  Jim Armstrong, *President*
  Doug Marlin, *Vice President*

- *Established in:* 1979
- *Number of Employees in Alberta:* **11-20**
- *Make of computers software developed for:*
  - *Minicomputer:* IBM
- *Operating systems software developed for:*
  - *Minicomputer:* SSP, CPF
- *Programming languages software developed in:*
  - *Minicomputer:* RPG, Basic

The firm specializes in providing hardware and software packages operating on the IBM system / 36 and system / 38.

Industry specific applications include local government accounting, oil and gas accounting systems, and retail merchandise management systems.

■ K. Stuart Associates Ltd.

600, 1414 - 8th Street S.W.
Calgary, Alberta,
T2E 1J6

Telephone: (403) 228 4722

- *Principal Officers:*

  K. Stuart, *President*

- *Established in:* 1977
- *Number of Employees in Alberta:* **4-6**

■ Kakari Systems Ltd.

10950 - 119 Street,
Edmonton, Alberta,
T5H 3P5

Telephone: (403) 451 6027

- *Principal Officers:*

  C.J. Elliot, *President*

- *Established in:* 1982

- *Number of Employees in Alberta:* **1-3**

The firm specializes in ZIM, DBASE III custom software development. It also provides data management consulting.

■ Kevonic Controls Ltd.

3667 - 60th Avenue S.E.
Calgary, Alberta,
T2C 2E5

Telephone: (403) 279 2730

- *Branch Offices:*

  Edmonton: (403) 437 1015

- *Principal Officers:*

  Ken Netzer, *President*
  Jack Tiessen, *Vice President*
  Glenn Johnson, *Vice President*

- *Established in:* 1972

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/ AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic, Assembler, Better Basic

■ Key Business Software Ltd.

4639 - 126 Avenue,
Edmonton, Alberta,
T5A 4L1

Telephone: (403) 478 1312

- *Principal Officers:*

  John Killeen, *President*

- *Established in:* 1983

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles and others

- *Operating systems software developed for:*
  - *Microcomputers:* PC-DOS, MS-DOS

Key Business Software Ltd., has many capabilities among which are:

— Transfer text from x word processor to y word processor

— Transfer text from y word processor to x word processor

— Transfer files from CP/M software control to MS/DOS software control (i.e. Supercalc CP/M to Supercalc MS/DOS and vice versa)

— Transfer spreadsheet information to a word processing system for inclusion in reports and printout of letter quality printers

— Format Target word processor diskettes, which will allow you to reduce your original diskette costs

— Electronically transfer text between remote locations

— File transfer between PC based word processing software packages and word processing systems

— Customization of document transfers through alternate character sets

Transfer word processing files to ASCII format. This allows the document to be transferred up into PC word processing packages not currently supported by Key Business software, and further, this method will strip out many embedded commands for preparation on documents to be sent on to photo typesetting.

A full range of word processing, supply of ribbons, print wheel's and accessories.

■ Keyword Office Technologies Ltd.

2816 - 11 Street N.E.
Calgary, Alberta,
T2E 757

Telephone: (403) 250 1770

- *Branch Offices:*

  Toronto
  Ottawa
  Montreal
  Winnipeg
  Calgary
  Vancouver
  New York
  Chicago
  Atlanta
  Boston
  Charlotte N.C.
  Dallas
  Houston
  Los Angeles
  San Diego
  San Franscisco

- *Principal Officers:*

  Bob Blackshaw, *President*
  David Martin, *Executive Vice President, R & D*
  Stephen Corbett, *Executive Vice President*

- *Established in:* 1979

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* PC-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* C

Keyword Office Technologies Ltd., enhances productivity in the office by improving the interchange of information among incompatible office automation systems.

The foundation of Keyword's document conversion capabilities is the Keyword Standard Interchange Format or (KSIF), a comprehensive translation architecture in which document attributes used by various word processing systems are identified. These include alphanumeric characters, formatting codes, special characters, control codes, directory information, headers/footers, etc.

KSIF is applied through the KEYWORD 7000, a Personal Computer peripheral hardware and software modular system for single or two-way document exchange between incompatible word processing systems.

Documents are revisable and fully usable in their new format and retain their original integrity as if they were actually created on that target system.

Hardware includes a printed circuit controller board and either one, or a combination of two, three or four disk drives powered by the PC.

Software consists of uni-directional *pairings'*, or matchups between two specific brands of word processor.

■ Kwok and Company Inc.

300, 8925 - 51 Avenue,
Edmonton, Alberta,
T6E 5J3

Telephone: (403) 465 9222

- *Principal Officers:*

  Henry Kwok, *President*
  Dale Fetterly, *Manager*

- *Established in:* 1985

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* WANG 2200, IBM 36
  - *Microcomputers:* WANG PC, IBM PC

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS/ Niakwa Compiler

- *Programming languages software developed in:*
  - *Minicomputer:* Basic
  - *Microcomputers:* Basic

Kwok and Company Inc., markets and supports word processing and general business software for use on several different types of computers. They offer fully-integrated application modules which can be used as is or modified to match specific requirements.

The company has written custom-tailored packages for several businesses, with special emphasis on the insurance industry. They have also developed a point of sale system for restaurants and lounges, and a Canadian payroll package which integrates with their other software. The variety of application modules available allows them to match most business requirements.

Kwok and Company Inc., also provides training, documentation and after-sale support for all of its products.

■ Laser Image Consulting

200, 10024 - 82 Avenue,
Edmonton, Alberta,
T6E 1Z3

Telephone: (403) 439 7638

- *Principal Officers:*

  Ken Brown, *Proprietor*

- *Number of Employees in Alberta:* **Not available**

- *Make of computers software developed for:*
  - *Minicomputer:* Convergent Tech.
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* UNIX, XENIX
  - *Microcomputers:* MS-DOS

■ Laser Software Limited

510, 736 - 6th Avenue S.W.
Calgary Alberta,
T2P 3T7

Telephone: (403) 233 0600

- *Principal Officers:*

  Ken Gray, *President*
  Tim Steeves, *Vice President*

- *Established in:* **1979**

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* IBM System / 38
  - *Microcomputers:* IBM-PC

- *Operating systems software developed for:*
  - *Microcomputers:* PC-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* Cobol
  - *Microcomputers:* DBASE-II

Laser Software Limited uses an IBM System /38 to provide data processing services to energy sector clients.

Specializing in land management systems, laser software offers a very personalized service to the client, starting with system design and implementation and continuing with the ongoing system operation, a close working relationship is developed. The result is a very flexible and efficient computer solution. In addition to land, Laser Software Limited provides a comprehensive microcomputer-based human resource system.

■ Lawmax Corporation

4454 - 97 Street,
Edmonton, Alberta,
T6E 5R9

Telephone: (403) 434 7402

- *Principal Officers:*

  G.P. Anderson, *President*
  E.D. Robinson, *General Manager*

- *Established in:* 1976

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* NCR, IBM, WANG
  - *Microcomputers:* IBM, NCR

- *Operating systems software developed for:*
  - *Minicomputer:* UNIX, SSP
  - *Microcomputers:* MS-DOS, UNIX

- *Programming languages software developed in:*
  - *Minicomputer:* RM Cobol
  - *Microcomputers:* RM Cobol

Lawmax Corporation is a company specializing in the development, marketing, and support of software for the legal profession.

Users are located in Canada, U.S.A., Bermuda and Jamaica. The LAWMAX system is a fully integrated accounting and management information system and includes all the standard law firm accounting functions of client disbursements, time recording, billing, accounts receivable, trust funds and general ledger.

As a by-product of the accounting functions, statistics are automatically generated for timekeepers, responsible lawyers, originating lawyers, major clients and types of practice.

While LAWMAX was specifically designed for law firms, it also can be used by any company recording

billable time, incurring recoverable costs on behalf of clients, holding client funds in trust, billing on a progress basis, and requiring full financial statements.

Typically, LAWMAX will be of interest to accountants, insurance adjusters, advertising agencies, engineers, etc.

■ Link Hospitality Ltd.

1323 - 16th Street N.W.
Calgary, Alberta,
T2N 2C7

Telephone: (403) 282 0890

- *Principal Officers:*

  C.K. Link, *President*
  P. Link, *Treasurer*

- *Established in:* 1982

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic, Pascal

The firm specializes in:

— Restaurant and Hotel custom software
— Hotel/restaurant budgeting, financial modelling
— Menu evaluation
— Housekeeping, linen, cost control modelling

■ M.A.P. Data Processing Systems Ltd.

510, 1167 Bowness Road N.W.
Calgary, Alberta,
T2N 3J6

Telephone: (403) 270 3323

- *Principal Officers:*

  R. Hostland, *President*

- *Established in:* 1978
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Mainframe:* NCR
- *Operating systems software developed for:*
  - *Mainframe:* IMOSS
- *Programming languages software developed in:*
  - *Mainframe:* Cobol

■ MAI Canada Ltd.

3404 - 25 Street N.E.
Calgary, Alberta,
T1Y 6C1

Telephone: (403) 291 2164

- *Head Office:*

  120 Amber Street,
  Markham, Ontario L3R 3A3
  Telephone: (416) 475 2117

- *Branch Offices:*

  Edmonton: (403) 468 6185
  Vancouver: (604) 430 8223
  Winnipeg: (204) 633 7293
  Saskatoon: (306) 653 5599
  Ottawa: (613) 225 1145
  Montreal: (514) 335 0050
  Quebec: (418) 687 9210
  Halifax: (902) 469 6647
  Brantford: (519) 756 3660
  Toronto: (416) 475 6030

- *Principal Officers:*

  Jack Leadbeater, *Branch Manager*

- *Established in:* 1965
- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Minicomputer:* MAI Basic Four
  - *Microcomputers:* MAI Basic Four
- *Operating systems software developed for:*
  - *Minicomputer:* MAI BOSS, UNIX
- *Programming languages software developed in:*
  - *Minicomputer:* Business Basic

MAI Canada Ltd., as a hardware manufacturer and supplier, primarily focuses their Corporation software effort on the ability to provide total business solutions for clients needs.

Each branch of MAI Canada across the country maintains a Software Department for the development, modification, installation, training and support of the numerous business software systems developed by MAI and its associated software vendors.

MAI has for many years used an Industry or Vertical Marketing approach, and is the dominant systems suppliers for many Canadian industries. In Alberta, of the hundreds of MAI software systems running on MAI hardware, the major MAI Industry Markets include:

— Local Governments
— Construction
— Property Management
— Clubs and Associations
— Transportation
— Management
— Manufacturing
— Distribution

A significant feature of MAI hardware and software is the ability to transport software from one hardware system to another when the need to change or upgrade the hardware arises - thus preserving the client's software investment.

■ MCT Microlink

300, 10909 Jasper Avenue,
Edmonton, Alberta,
T5J 2W5

Telephone: (403) 426 5666

- *Principal Officers:*

  Jerry Dobruk, *President*
  Arian Unpowych, *Treasurer*

- *Established in:* 1984
- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* HP 3000
  - *Microcomputers:* Altos, IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* CCPM, XENIX
- *Programming languages software developed in:*
  - *Minicomputer:* Basic, Cobol
  - *Microcomputers:* Basic, Cobol

MCT Microlink provides systems planning, development and implementation services primarily to the following clientele:

— Provincial Government

— Oil and Gas

— Medical Service

Our senior consultants have an average of 15 years of accomplished and progressive systems experience covering the spectrum to mainframe, mini and microcomputer development.

MCT has been created to encourage a sound longterm orientation towards automation planning, as opposed to the fragmented efforts that too often predominate today.

■ MDS Quantel Canada Inc.

220, 200 Rivercrest Drive S.E.
Calgary, Alberta,
T2J 2X8

Telephone: (403) 236 2330

- *Head Office:*
  204 Amber Street,
  Markham,
  Ontario, L3R 3J8
  Telephone: (416) 475 3450
- *Branch Offices:*
  Edmonton: (403) 489 7771
- *Principal Officers:*
  Karl Niemuller, *President*
  Larry Stewart, *Sales Manager*
- *Established in:* 1983
- *Number of Employees in Alberta:* **7-10**
- *Make of computers software developed for:*
  - *Minicomputer:* MDS Qantel

- *Operating systems software developed for:*
  - *Minicomputer:* BEST/ ADS
- *Programming languages software developed in:*
  - *Minicomputer:* Basic, Cobol

MDS Quantel supplies and services turnkey minicomputer hardware and software in certain specialized market areas. Specific Alberta industries supported:

— Wholesale distribution
— Accounting Services
— Manufacturing
— Retail Softgoods
— Hospitality and leisure
— Alberta natural gas co-ops
— Rental Management
— Trucking/ Transportation
— Sports Management
— Transit Management

■ MJ Data Consultants (Alberta) Ltd.

900, 800 - 5th Avenue S.W.
Calgary, Alberta,
T2P 3T6

Telephone: (403) 264 6020

- *Principal Officers:*

  Phil Peterson, *President*
  Dennis Howden, *Vice President*

- *Established in:* 1982
- *Number of Employees in Alberta:* **Over 30**
- *Make of computers software developed for:*
  - *Mainframe:* IBM 308X
  - *Microcomputers:* IBM-XT/ AT and Compatibles
- *Operating systems software developed for:*
  - *Mainframe:* MVS
  - *Microcomputers:* PC-DOS
- *Programming languages software developed in:*
  - *Mainframe:* Cobol, Focus
  - *Microcomputers:* Cobol, C

MJ Data Consultants is a software company which provides application software and data processing

services to small and medium sized oil companies in oil and gas financial accounting and land records management.

■ MMS Management Services Ltd.

226, 6715 - 8th Street N.E.
Calgary, Alberta,
T2E 7H7

Telephone: (403) 274 2293

- *Branch Offices:*
  Edmonton: (403) 463 4037
  Vancouver: (604) 266 1815
- *Principal Officers:*
  Roger L. Coombe, *President*
  Clauddette Coombe, *Director*
- *Established in:* 1973
- *Number of Employees in Alberta:* **21-30**
- *Make of computers software developed for:*
  - *Minicomputer:* VAX 730, 750, 780
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* VMS
  - *Microcomputers:* MS-DOS, UNIX, XENIX
- *Programming languages software developed in:*
  - *Minicomputer:* Basic
  - *Microcomputers:* Progress, C, Basic

MMS offers single and multi-user microcomputer systems and service bureau services to the medical and dental communities.

Our prime focus is to computerize our client's medical billings to both the private sector and provincial health plan. On-line patient charts and chart indexing are offered through both our microcomputer systems and service bureau.

In addition, our microcomputer systems provide a client with on-line full patient histories, client defined research capabilities and appointment scheduling.

■ MacCosham Data Services Ltd.

10301 - 109 Street,
Edmonton, Alberta,
T5J 1N4

Telephone: (403) 425 1910

- *Branch Offices:*
  Calgary: (403) 266 3984
- *Principal Officers:*
  C. Fulmore, *President*
  Chris Sail, *Managing Director*
- *Established in:* 1983
- *Number of Employees in Alberta:* **11-20**
- *Make of computers software developed for:*
  - *Mainframe:* ICL
  - *Minicomputer:* ICL, IBM
  - *Microcomputers:* ICL, IBM
- *Operating systems software developed for:*
  - *Mainframe:* TME
  - *Minicomputer:* MS-DOS, CP/M
  - *Microcomputers:* MS-DOS, CP/M, MPM
- *Programming languages software developed in:*
  - *Mainframe:* Cobol
  - *Minicomputer:* Cobol, Basic, Pascal
  - *Microcomputers:* Basic

MacCosham's approach to business is based upon sound common sense in computers as in any other line of business.

We can provide the following services:

— Business studies to define client requirements

— Custom system development

— Packaged software solutions

— Installation and Education

— Bureau service for oil companies or large manufacturing companies on our mainframe

— Facilities management

In summary MacCosham data services can offer a range of products and services backed by a professional level of consulting and advice consistent with the reputation of a company such as MacCosham's.

■ MacKay Douglas Computing Ltd.

206, 8008 - 86 Street,
Edmonton, Alberta,
T6E 5S2

Telephone: (403) 469 1381

- *Principal Officers:*

  Glenn Skolney, *President*

- *Number of Employees in Alberta:* **1-3**

MacKay Douglas Computing specializes in accounting systems such as General Ledger, Accounts Receivable, Payroll, Job Costing, and Time and Billing.

■ Mackereth Information Systems Ltd.

Box 5275, Station A,
Calgary, Alberta,
T2H 1X6

Telephone: (403) 258 1292

- *Branch Offices:*

  Edmonton: (403) 435 9251

- *Principal Officers:*

  W. Colleus, *President*

- *Established in:* 1981

- *Number of Employees in Alberta:* **11-20**

- *Make of computers software developed for:*
  - *Minicomputer:* IBM System / 36 and / 38

- *Operating systems software developed for:*
  - *Minicomputer:* IBM SSP, CPF

- *Programming languages software developed in:*
  - *Minicomputer:* RPG II

■ Magna IV Engineering Ltd.

4207 - 98 Street,
Edmonton, Alberta,
T6E 5R7

Telephone: (403) 462 3111

- *Branch Offices:*

  Regina: (306) 359 1030
  Saskatoon: (306) 955 8131

- *Principal Officers:*

  D.A. Peterson, *President*
  A.Y. Allidina, *Secretary*
  F.H. Granacher, *Treasurer*

- *Established in:* 1982
- *Number of Employees in Alberta:* **7-10**
- *Make of computers software developed for:*
  - *Mainframe:* Control Data Time Sharing
- *Programming languages software developed in:*
  - *Mainframe:* Basic

Software listings available for conductor sag/tension calculations, power line route selection and structure spotting. Maintenance software under development.

■ Management Information Group

224, 7 St. Anne Street,
St. Albert, Alberta,
T8N 1E8

Telephone: (403) 458 8722

- *Principal Officers:*

  Ash Khan, *President*

- *Established in:* 1977
- *Number of Employees in Alberta:* **11-20**
- *Make of computers software developed for:*
  - *Mainframe:* NCR 9300
  - *Minicomputer:* NCR 8250 - 8270 - 9020
  - *Microcomputers:* Altos; NCR Tower, IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* IMOS
  - *Microcomputers:* XENIX, MS-DOS
- *Programming languages software developed in:*
  - *Minicomputer:* Cobol
  - *Microcomputers:* Cobol

Executive Overview

M.I.G. has provided accounting and administrative systems to municipal governments throughout Alberta since 1977. In addition to initial system installation, M.I.G. has provided a maintenance

service to accommodate changes in government requirements and keeps pace with advancing technology.

M.I.G. is an IBM, NCR, and Altos corporately recognized and supported software house, providing application software, utilizing the superior attributes of computer systems. As such, M.I.G. offers our existing and prospective users, the following:

— Specialized marketing and system design

— Specialized system analyst support

— On-going system development

— On-site and/or tele-diagnostic support

— Superior system configurations, and unique migration path

It is our recommendation to install tested and proven application software. The software provided by M.I.G. addresses the specific needs of the Municipal Districts. Some of the many inherent features of the application software include:

— Complete control of Financial, and Word Processing Systems

— Security to prevent unauthorized Data Base manipulation

— Ease-of-use by existing staff, not requiring programming and technical personnel

— Efficient handling of the day-to-day workload as well as peak period processing

In the development of the M.I.G. application software, careful attention has been given to the specialized information processing and reporting requirements of the municipal districts. M.I.G.'s software products are developed by our own programmers and systems analysts in conjunction with representatives from various municipal districts in Alberta. The systems are fully integrated and feature migration pathing to enable future hardware upgrades.

"The value of any computer system is solely dependent on the Application Software and its continuous enhancement to maintain current with the industry requirements and standards."

M.I.G. has adhered to this most valuable code.

■ Management Science America (Canada) Ltd.

333 - 7th Avenue S.W.
Calgary, Alberta,
T2P 2Z1

Telephone: (403) 237 0216

- *Head Office:*

  30th Floor, 777 Bay Street,
  Toronto, Ontario.
  Telephone: (416) 595 1505

- *Branch Offices:*

  Montreal: (514) 932 1800

- *Principal Officers:*

  Mike Wakzak, *Canadian General Manager*

- *Established in:* 1978

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Mainframe:* IBM, Burroughs, Sperry
  - *Microcomputers:* NCR, Honeywell

- *Operating systems software developed for:*
  - *Mainframe:* Adbase, OS, MS-DOS, IDMS, IMS, DBDC, Datacomb DB
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Cobol, IE Fourth Generation

MSA's objectives in Canada are to market, install, and support application software packages in Financial Cash Management, Human Resource, Manufacturing, and Health Care in the mainframe computer market.

■ Martin and Company

725 - 29 Street North,
Lethbridge, Alberta,
T1H 5G3

Telephone: (403) 329 0244

- *Principal Officers:*

  A.F. Martin, *President*
  D.A. Martin, *Director*
  E.J. Martin, *P. Eng.*
  W.A. Martin, *P. Eng.*

- *Established in:* 1985

- *Number of Employees in Alberta:* **21-30**

- *Make of computers software developed for:*
  - *Microcomputers:* HP 71B, Sharp PC IS00A, IBM PC-AT

- *Programming languages software developed in:*
  - *Microcomputers:* Forth, Basic, Assembler

Martin and Co. designs, develops and markets software for design and computations in the land surveying, civil engineering and other industries involved in land based or positional data.

Our software is being marketed in several countries with the main area being the U.S. Computer programs are based on our R & D work particularly through the assistance of the Alberta and National Research Councils.

■ McEwan and Associates Ltd.

3726 - 91 Street,
Edmonton, Alberta,
T6E 5M3

Telephone: (403) 462 0065

- *Branch Offices:*
  Calgary: (403) 279 4421
- *Principal Officers:*
  Leonard McEwan, *President*
- *Established in:* 1984
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Minicomputer:* MDS Super 21 (CP/M)
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* CP/M
  - *Microcomputers:* MS-DOS, CP/M

■ Micro-Futures

308, 902 - 11 Avenue S.W.
Calgary, Alberta,
T2R 0E7

Telephone: (403) 229 0424

- *Branch Offices:*
  Toronto: (416) 533 6846
- *Principal Officers:*
  Peter-Mark Bennitt, *President*
  Carlos Pardo, *Vice President, Research*
  Jack Campbell, *Vice President, Administration*
- *Established in:* 1983
- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Microcomputers:* Micro-Vax II, IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* VAX/VMS, MS-DOS, UNIX
- *Programming languages software developed in:*
  - *Microcomputers:* C, Turbo Pascal, Assembler

Micro-Futures specializes in the design and development of interactive videodisc, videotex and combined videodisc/videotex systems. Each system is end-user driven and is customized to satisfy the requirements of each application. Our applications customization expertise ranges throughout the spectrum; from Pos (electronic point of sale), information systems, and optical storage and retrieval through to industrial and government training.

By-products of our development of various application systems has been the creation of a broad range of tools, some of which are:

— ASCII and videotex BBMS (data base management systems)

— LAN (local arcu network) and

— VLSI (very large system integration) communication strategies

— and several state of the art courseware authoring systems.

Micro-futures' services extend past software development to consulting (video production, hardware selection, and client needs analysis) and maintenance (on all Micro-Futures' deliverables).

■ Montech Data Systems Ltd.

215, 801 - 6 Street S.W.
Calgary, Alberta,
T2P 3V8

Telephone: (403) 265 6463

- *Principal Officers:*

  E.B. Montgomery, *President*

- *Established in:* 1978
- *Number of Employees in Alberta:* 1-3
- *Make of computers software developed for:*
  - *Minicomputer:* DEC VAX
  - *Microcomputers:* Micro-Vax
- *Operating systems software developed for:*
  - *Minicomputer:* VAX/VMS
  - *Microcomputers:* Micro/VMS
- *Programming languages software developed in:*
  - *Minicomputer:* Datatrieve, Fortran
  - *Microcomputers:* Datatrieve, Fortran

Montech is a service company and consulting service specializing in geological computer systems technology. Expertise is offered for the planning and development of data files and processing systems for workers in the geological sciences.

Projects are undertaken to build data collections, computer files and application programs that will contribute to improved data handling for petroleum exploration or research. The company develops databases and software for all classes of general well data, and special data for stratigraphy, paleontology, geochemistry, reservoir and production.

Products developed and marketed by the company are:

— Geological Project Data management system

— Survey location translation system

— Directional Survey Database with management and computation systems

■ Mounteer Data Share Ltd.

227 Oakfern Way S.W.
Calgary, Alberta,
T2V 4K2

Telephone: (403) 281 7681

- *Principal Officers:*

  W.D. Mounteer, *President, P. Eng.*

- *Established in:* 1982

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, PC-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic, Assembler

The firm specializes in fully integrated general accounting systems for small to medium business using IBM and IBM compatible microcomputers.

Integration includes general ledger, financial reporting, budgets and forecasts, accounts payable, accounts receivable, order entry, invoicing and sales analysis. All systems are also bi-directionally interfaced to most popular database and spreadsheet software systems. A very heavy emphasis is placed upon ease of use, user training and user support.

■ Myrias Research Corporation

200, 10328 - 81 Avenue,
Edmonton, Alberta,
T6E 1X2

Telephone: (403) 432 1616

- *Principal Officers:*

  Kenneth Gordon, *President*
  Martin Walker, *Research and Development Manager*

- *Established in:* 1982

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Supercomputer:* Myrias 4000

- *Operating systems software developed for:*
  - *Supercomputer:* UNIX

- *Programming languages software developed in:*
  - *Supercomputer:* Myrias Parallel, Fortran, Parallel C

Myrias Research Corporation was founded in late 1982 to develop and manufacture large scale parallel processors intended primarily for use in numerical modelling of complex physical phenomena.

From the outset, development of the Myrias technology was linked to an understanding of the applications of, hence the, market for, parallel processing. From an early survey of applications - including such important problem areas as signal processing, seismic analysis, particle transport modelling, quantum chemistry, cryptology, and fluid flow modelling - the company developed a solution to the problem of controlling a system of cooperating processors - a problem that has for years stood in the way of successful commercial development of parallel processors.

The serial computer is now at the edge of its limits. Individual processors are within a factor of ten of their maximum attainable speed. It is widely acknowledged that the next step in the development of computing power will be the parallel processor, harnessing the power of a number of individual processors to solve a single problem. The possibility of parallel processing puts us on the brink of a major realignment in our approach to computer technology. Like its serial predecessor, the parallel computer will utterly change what is possible. What is needed to tap this potential is a flexible control mechanism that can efficiently manage the hardware resources. Myrias Research Corporation has developed an effective and efficient solution to the parallel processing control problem.

Myrias has designed a high level programming language, Myrias Parallel Fortran (MPF), which is upwards compatible with standard Fortran 77. With few caveats, standard Fortran programs can make full use of the Myrias parallel architecture. A powerful memory model eliminates explicit synchronization methods used in previous multiple-instruction stream parallel computers. Algorithms found in surveyed applications are projected to use the Myrias architecture efficiently. Moreover, it is thought that as this new hardware becomes increasingly available to the software community, markedly more powerful algorithms will emerge.

The Myrias technology is designed to be adequate in a world of rapidly-changing hardware technologies. The initial product is being developed around a processing element based on the

Motorola 68000 microprocessor each with 512 KBytes of primary memory. Hardware will be offered in modules of 1000 such processing elements.

■ Neotechnology Consultants Ltd.

2723 - 37th Avenue N.E.
Calgary, Alberta,
T1Y 5R8

Telephone: (403) 291 1020

- *Principal Officers:*

  Garry A. Gregory, *President*
  Edward A. De Souza, *Manager*

- *Established in:* 1972

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Supercomputer:* CRAY
  - *Mainframe:* Cyber, UNIVAC, IBM
  - *Minicomputer:* Prime
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Programming languages software developed in:*
  - *Supercomputer:* Fortran
  - *Mainframe:* Fortran
  - *Minicomputer:* Fortran
  - *Microcomputers:* Fortran

The firm specializes in the following:

Main Services:

— Specialized short courses
— Consulting (pipeline, wellbore, gas field design and optimization)
— Software design, support, training and marketing
— Research

We specialize in:

— Hydrocarbon fluid properties
— Single and multiphase gas-liquid pipelines and wellbores and gathering systems
— Gas Deception forecasting and development scheduling
— Sucker rod pump design and analysis

■ Nichols Advanced Technologies Inc.

1100, 10130 - 103 Street,
Edmonton, Alberta,
T5J 3N9

Telephone: (403) 424 0091

- *Principal Officers:*

  D. Bruce Butler, *President*
  Peter C. Nichols, *Vice President*

- *Established in:* 1983

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM and Compatibles, DEC, WANG

- *Operating systems software developed for:*
  - *Microcomputers:* PC-DOS, MS-DOS

Nichols Advanced Technologies Inc., is a software company specializing in packaged microcomputer software research and development.

The current products comprising the MOLLI (Micro Online Library Information) system are designed primarily for automating corporate, organizational, and school libraries. This software is currently being used and distributed throughout North America and abroad.

MOLLI automates searching, indexing, cataloging, circulation and acquisition functions for corporate and school libraries. MOLLI is designed for use by the occasional user and professional librarian alike.

A key feature of the software is the on-line searching for items using various keywords such as title words, authors and subjects.

■ Northern Computer Logic Inc.

5009 - 51 Street,
Wetaskiwin, Alberta,
T9A 1L4

Telephone: (403) 352 9302

- *Principal Officers:*

  David Ruff, *Manager*
  Ralph Rasmuson, *President*

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* DEC, PDP-11
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* RSTS/E
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Minicomputer:* Basic

■ Novate Enterprises Inc.

20 Tweedsmuir Crescent,
Edmonton, Alberta,
T5N 3T7

Telephone: (403) 488 5785

- *Principal Officers:*

  Alan McConnell, *President*

- *Established in:* 1984
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Programming languages software developed in:*
  - *Microcomputers:* Cobol

■ Novatel Communications Ltd.

700 - 9 Avenue S.W.
Calgary, Alberta,
T2P 3V4

Telephone: (403) 298 0444

- *Branch Offices:*

  Lethbridge: (403) 329 7600
  Edmonton: (403) 452 8450
  Montreal: (514) 735 6441
  Atlanta: (404) 449 6666

- *Principal Officers:*

  Del Lippert, *President*
  Jerry McCarty, *Senior Vice President, Marketing and Sales*
  Arunas Slekys, *Senior Vice President, R & D and Manufacturing*
  Morton Downey, *Group Vice President, Marketing, Sales and Customer Service*
  Peter Kawchuk, *Vice President, Sales*
  Don Larimore, *Vice President, Atlanta Operation*

- *Established in:* 1983
- *Number of Employees in Alberta:* **Over 30**
- *Make of computers software developed for:*
  - *Minicomputer:* VAX
  - *Microcomputers:* MICRO-11, 6805, 6809
- *Operating systems software developed for:*
  - *Minicomputer:* VMS, UNIX
  - *Microcomputers:* RSX-11M+
- *Programming languages software developed in:*
  - *Minicomputer:* C
  - *Microcomputers:* C, Assembler

Novatel Communications is a developer of a distributed cellular mobile telephone system. A turn key system providing distributed call handling nodes communicating with a centralized maintenance and administration centre.

■ Ocelot Computer Services Inc.

1209, 10025 - 106 Street,
Edmonton, Alberta,
T5J 1G7

Telephone: (403) 421 4187

- *Principal Officers:*

  Peter Gulutzan, *President*

- *Established in:* 1981
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* C, Macro-86, Basic, Pascal

Primarily, Ocelot supplies DBMS "libraries" which can be called from high-level MS-DOS languages, (BASIC, C, Pascal, or Fortran). This makes it useful for application developers (including software companies), since no "stand-alone" DBMS can deliver equivalent customizability or power. Ocelot also supplies an easy-to-use low-price relational DBMS package for MS-DOS end users, and does custom programming for other software companies, or application development in contexts which require MS-DOS, DBMS specialization.

■ PHH Engineering Ltd.

232S 8500 MacLeod Trail S.E.
Calgary, Alberta,
T2H 2N1

Telephone: (403) 2259 520

- *Principal Officers:*

  Peter H. Holst, *President*

- *Established in:* 1977

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Supercomputer:* Cray
  - *Minicomputer:* VAX
  - *Microcomputers:* HP 9816

- *Operating systems software developed for:*
  - *Supercomputer:* NOS 2.0
  - *Minicomputer:* VMS
  - *Microcomputers:* Pascal, Basic

- *Programming languages software developed in:*
  - *Supercomputer:* Fortran
  - *Microcomputers:* Fortran, Basic

The company specializes in reservoir simulation software particularly as it applies to fully compositional reservoir simulation.

Current research and development is in the area of more powerful linear equation solvers, control of numerical dispersion and grid orientation effects and user friendly auxiliary programs that simplify the preparation of input data and the analysis of simulator results.

■ PSC Consulting Ltd.

8615 - 185 Street,
Edmonton, Alberta,
T5T 1K1

Telephone: (403) 487 3917

- *Principal Officers:*

  Peter Johnston, *General Manager*

- *Established in:* 1983

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Mainframe:* Amdahl, IBM, Cyber
  - *Microcomputers:* Apple Macintosh

- *Operating systems software developed for:*
  - *Mainframe:* MTS, NOS
  - *Microcomputers:* Macintosh OS

- *Programming languages software developed in:*
  - *Mainframe:* Fortran, Tutor
  - *Microcomputers:* Basic

PSC Consulting Ltd., specializes in the area of providing training and consultation to clients in the electronic data processing field.

We currently offer seminars in computer literacy, programming, and specialized applications throughout Western Canada. We also provide consultation for clients wishing to purchase computing power or upgrade their current systems.

Upon request, PSC can develop custom training courses and seminars to meet a clients individual needs.

■ PSI Energy Software (Canada) Inc.

914 - 15th Avenue S.W.
Calgary, Alberta,
T2R 0S3

Telephone: (403) 245 6820

- *Principal Officers:*

  B. Harrington, *President*

- *Number of Employees in Alberta:* **21-30**

- *Make of computers software developed for:*
  - *Mainframe:* IBM, Univac
  - *Mainframe:* DEC, Prime, Data General, Wang
  - *Microcomputers:* IBM-XT/AT and Compatibles

PSI Energy Software (Canada) Inc., has been providing computer programs for the petroleum industry since 1971. These programs are used to solve petroleum engineering problems, do economic evaluations and maintain production and reserves information.

■ Pansophic Systems of Canada Ltd.

220, 1010 - 8th Avenue S.W.
Calgary, Alberta,
T2P 1T2

Telephone: (403) 262 2292

- *Head Office:*
  902, 165 Dundas St. West.
  Mississauga, Ontario, L5B 2N6
  Telephone: (416) 272 0780

- *Branch Offices:*
  Montreal: (514) 875 5027
  Vancouver: (604) 222 0773

- *Principal Officers:*
  Eric Ginn, *Canadian Regional Manager*

- *Established in:* 1969

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Mainframe:* IBM 43XX
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* MS-DOS, OS, CMS
  - *Microcomputers:* PC-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Assembler
  - *Microcomputers:* C

Pansophic's products run on IBM 43XX and larger machines. The company is involved in on line development tools, information and retrieval products and library control systems. About 40% of all IBM mainframe shops have one or more Pansophic products installed.

Recently the company has developed PC based versions of some of its mainframe products and also offers decision support products that span PC's, minicomputers, and mainframes.

■ Paper Chase Text Conversion Services

200, 10024 - 82 Avenue,
Edmonton, Alberta,
T6E 1Z3

Telephone: (403) 433 7186

- *Principal Officers:*

  Phillip King, *President*
  Peter von Stackelberg, *Vice President*

- *Established in:* 1985

- *Number of Employees in Alberta:* **4-6**

- *Operating systems software developed for:*
  - *Microcomputers:* UNIX, MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* C, Basic

Paper Chase Text Conversion Services Inc., is a recently incorporated Alberta company whose major function is to provide rapid data entry and media conversion services to both the private and public sectors. The principals in Paper Chase bring with them extensive experience in a variety of areas, including publishing, database software design, computer graphics software, computer hardware design, and information acquisition and handling.

In addition to its work in text and media conversion, Paper Chase is involved in research that will further enhance the capabilities of its intelligent character recognition systems. Optical scanning systems for digitizing pictures, diagrams, engineering drawings, and other graphic material are now being developed by the company. The aim is to develop computerized systems that can digitize both text and graphics; store the information on hard disk, floppy disk, magnetic tape or other storage devices; and, on demand, transmit that information via telephone, radio or satellite communications to virtually anywhere in the world.

Paper Chase is also involved in the development of information handling systems that use the latest techniques from the growing field of artificial intelligence and expert systems. Specialized systems for use in areas of architecture and construction, tax regulations and information retrieval for the publishing industry are now under development by the company.

■ Peat, Marwick and Partners

2500, 700 - 2nd Street S.W.
Calgary, Alberta,
T2P 2W2

Telephone: (403) 267 3200

- *Head Office:*

  P.O. Box 31,
  Commerce Court West,
  Toronto, Ontario.
  Telephone: (416) 863 3300

- *Branch Offices:*

  24 offices across Canada

- *Principal Officers:*

  Navin Dave, *Partner*

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Mainframe:* Sperry, DEC, NCR
  - *Minicomputer:* Sperry, DEC, NCR
  - *Microcomputers:* Sperry, DEC, NCR

- *Programming languages software developed in:*
  - *Mainframe:* SMC Basic
  - *Minicomputer:* SMC Basic
  - *Microcomputers:* SMC Basic

■ Perkin-Elmer Canada Ltd.

305, 1305 - 11 Avenue,
Edmonton, Alberta,
T3C 3P6

Telephone: (403) 244 9307

- *Head Office:*

  6468 Viscount Road,
  Mississauga,
  Ontario, L4V 1H3
  Telephone: (416) 677 8990

- *Branch Offices:*

  Vancouver: (604) 736 2801
  Ottawa: (613) 731 0116

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* Perkin Elmer Series 3200

- *Operating systems software developed for:*
  - *Minicomputer:* OS/32 and XELOS
- *Programming languages software developed in:*
  - *Minicomputer:* Fortran, Cobol, Pascal, ADA

Perkin-Elmer is a multi-divisional, multinational, Fortune 500 company. Perkin-Elmer's Data Systems Division manufactures and markets a complete line of 32-bit minicomputers for the scientific, technical and commercial OEM, VAR and in-house systems builder.

■ Personal Computer Consulting Service

5114 - 18A Avenue,
Edmonton, Alberta,
T6L 1J8

Telephone: (403) 462 5989

- *Principal Officers:*

  Michael Shih, *Manager*
  Rosanna Shih, *Assistant Manager*

- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* PC-DOS, MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* C

We provide hardware and software consultation, education, and training to small business owners on IBM PC and compatibles. We specialize in system design, user manual preparation, and customizing selected software tools for user's specific business applications. We are experienced with IBM PC and IBM mainframe.

■ Petresim Engineering Ltd.

200, 926 - 5th Avenue S.W.
Calgary, Alberta,
T2P 0N7

Telephone: (403) 234 7383

- *Principal Officers:*

  A. Ardalla, *President*
  P. Pantella, *Executive Vice President*
  C.E. Thomas, *Chairman*

- *Established in:* 1980

- *Number of Employees in Alberta:* **11-20**

- *Make of computers software developed for:*
  - *Supercomputer:* Cyber 205/Cray 1-S
  - *Mainframe:* IBM/Cyber 175
  - *Minicomputer:* VAX/Microvax/Prime/Harris/Gould/Convex
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Supercomputer:* NOS, EKS
  - *Mainframe:* MVS, NOS
  - *Minicomputer:* UVMS, PRIMOS
  - *Microcomputers:* HP BASIC, MS-DOS

- *Programming languages software developed in:*
  - *Supercomputer:* Fortran V, Fortran 77
  - *Mainframe:* Fortran V, Fortran 77
  - *Minicomputer:* Fortran V, Fortran 77
  - *Microcomputers:* HP Basic, Fortran 77

The firm provides consulting and software services to the petroleum industry in the areas of geology, petrophysics and reservoir engineering.

Reservoir engineering software is made available at several commercial supercomputer sites for use by clients or may be installed on client's facilities.

We provide software support, training in its use, and custom modifications which may be requested by clients. We also undertake new software development projects when a need is expressed by clients, if deemed feasible.

■ Phil Whiting Computer Systems Ltd.

17 Airport Road,
Edmonton, Alberta,
T5G 0W7

Telephone: (403) 452 2652

- *Principal Officers:*

  Phil Whiting, *President*

- *Established in:* 1980

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* Data General
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* ADS, ADS/VS, ADOS
  - *Microcomputers:* RDOS, ADS, MS-DOS
- *Programming languages software developed in:*
  - *Minicomputer:* Cobol

The firm is a system supplier to small business, government, and associations. PWCS offers a full range of hardware (micro to mainframe), software and support services based on Data General Equipment.

■ Philip Fites and Associates

R.R. # 5,
Edmonton, Alberta,
T5P 4B7

Telephone: (403) 470 0012

- *Principal Officers:*

  Philip Fites, *President*

- *Established in:* 1981
- *Number of Employees in Alberta:* **1-3**

Philip Fites and Associates provides consulting and project management services to clients in the use of computers, particularly microcomputers, in solving company problems. Some educational services are provided as well. Our primary focus is on self-contained or independent organizations or sub-units (as opposed to very large projects). Special areas of expertise include security and legal matters related to the EDP industry.

Clients have included government, local, provincial and federal; private sector in small business areas; and educational institutions.

We do not directly develop software but have, and can, assemble teams to accomplish whatever is needed in assignments.

■ Price Waterhouse

1200, 425 - 1st Street S.W.
Calgary, Alberta,
T2P 3V7

Telephone: (403) 263 3310

- *Head Office:*

  P.O. Box 51,
  Toronto Dominion Centre,
  Toronto, Ontario, M5K 1G1
  Telephone: (416) 863 1133

- *Branch Offices:*

  Edmonton: (403) 423 5234
  Vancouver: (604) 682 4711
  Winnipeg: (204) 943 7321
  Montreal: (514) 879 9050
  Ottawa: (613) 238 8200
  Toronto: (519) 679 9160

- *Principal Officers:*

  B.E. Massie, *Partner*

- *Established in:* 1945

- *Number of Employees in Alberta:* **Not available**

- *Make of computers software developed for:*
  - *Minicomputer:* Prime
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* Primos/Information
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* Basic
  - *Microcomputers:* Basic

Price Waterhouse supports the RC-GMS Resource Economic Evaluation System. Our support includes marketing, installation, training and ongoing maintenance.

The package is used to perform detailed evaluations of oil and gas preparation on a before and after tax basis and provides full financial statement projections.

Price Waterhouse supports the Excalibur Oil and Gas Software package designed for oil and gas accounting, and land management reporting requirements. This comprehensive system operates on PRIME computer systems utilizing INFORMATION data base. Our support includes marketing, training, installation and maintenance.

■ Prime Computer of Canada Ltd.

2401, 10104 - 103 Avenue,
Edmonton, Alberta,
T5J 0H8

Telephone: (403) 423 4705

- *Head Office:*

  5945 Airport Road,
  Toronto,
  Ontario, L4V 1R9.
  Telephone: (416) 678 7331

- *Branch Offices:*

  Across Canada

- *Principal Officers:*

  C.S. Haverstock, *President*

- *Established in:* 1972

- *Number of Employees in Alberta:* **21-30**

- *Make of computers software developed for:*
  - *Mainframe:* PRIME
  - *Minicomputer:* PRIME

- *Operating systems software developed for:*
  - *Mainframe:* PRIME
  - *Minicomputer:* PRIME

- *Programming languages software developed in:*
  - *Mainframe:* Almost All
  - *Minicomputer:* Almost All

As a major supplier/manufacturer of super minicomputers, Prime believes in solution marketing into vertical markets serviceable by Prime Proprietary Software or through channel marketing with affiliate software organizations.

■ Procom Computing Systems Inc.

404 - 13th Avenue N.E.
Calgary, Alberta,
T2E 1C2

Telephone: (403) 230 3764

- *Principal Officers:*

  J.T. Rutherford, *General Manager*
  L.B. Sonnenberg, *Secretary-Treasurer*
  J.W. Wilson, *Vice President*

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/ AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* CP/ M, MS-DOS, Turbo DOS
- *Programming languages software developed in:*
  - *Microcomputers:* DBASE II

The firm is a developer of Canadian Oil and Gas accounting and land management software. Oriented to the small to medium sized oil producer and to microcomputer equipment.

■ Pronto Data Services

9629 - 82 Avenue,
Edmonton, Alberta,
T6C 0Z9

Telephone: (403) 432 7087

- *Principal Officers:*

  Nash Ramji, *Partner*
  Aziz Lalji, *Partner*

- *Established in:* 1982
- *Number of Employees in Alberta:* **4-6**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/ AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* C

The firm specializes in new and improved customized software including the following:

— Payroll packages with complete payroll records
— Complete accounting packages extremely competitive

Other specialized services include:

— Computer consulting, training
— Customized software for IBM's and compatibles
— Data processing, accounting budgeting, projections
— Professional support by experienced, qualified staff
— In business since 1982, FAST, EFFICIENT, AFFORDABLE

■ QRD Systems Consultants Ltd.

10126 - 118 Street,
Edmonton, Alberta,
T5K 1Y4

Telephone: (403) 482 7127

- *Branch Offices:*

  Calgary: (403) 266 4771
  Regina: (306) 359 7808

- *Principal Officers:*

  D. Heinemann, *Managing Director*
  M. Bell, *General Manager*
  T. Lineham, *Development Manager*

- *Established in:* 1979

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/ AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Cobol, Knowledgeman

QRD was established in 1979 to provide a full range of integrated information systems consulting services from strategic planning to system implementation. These services include project management, planning, data modelling, management consulting, technical support, office automation, consulting, application development, training, package selection and installation, software management, and hardware selection.

During its first seven years of operation, QRD has established a reputation for producing quality results. We believe this is a result of several factors - our people, our attention to quality control, and our concern for meeting user requirements.

QRD is a large regional consulting company providing service to a wide range of corporations and government agencies from our offices in Edmonton, Calgary, and Regina.

■ R.H.G. Holdings Ltd.

16, 7003 - 30 Street S.E.
Calgary, Alberta,
T2C 1N6

Telephone: (403) 236 4550

- *Principal Officers:*

  R. Gordon, *President*

- *Established in:* **1984**

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM, Apple

- *Operating systems software developed for:*
  - *Microcomputers:* PC-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* DBASE, Framework, Basic

R.H.G. Holdings is a Calgary based Canadian owned corporation developing products and software in the CAD/CAM field suitable to design production environments for manufacturing and process control.

The group has a strong philosophy towards human compatible command structures and uses all software and hardware limits to eliminate redundant operator intervention. This recognizes the fact that today's engineers, operators and workmen will interrelate with many different operating systems in their usual routines. We also recognize that long intricate command structures confuse and eliminate efficiency, when operators cannot learn in detail, greater numbers of different unreasonably complex systems. On this basis the company produces package and custom products as is best suited to a users environment and operators capabilities.

■ R.N. Christie Communications Consultants

201, 11738 Kingsway,
Edmonton, Alberta,
T5G 0X5

Telephone: (403) 451 4260

- *Principal Officers:*

  R.N. Christie, *President*
  C. Christie, *Vice President*

- *Established in:* **1978**

- *Number of Employees in Alberta:* **1-3**

R.N. Christie Communication Consultants specializes in providing clients assistance in the areas of systems analysis, software and hardware selection, system conversion and implementation, training, and documentation for all sizes of computing systems and all types of applications.

We work with the client and their staff to ensure that automation projects are implemented smoothly and efficiently. Often a business knows only that it must automate, but does not know how to go about the process of change. We develop detailed selection criteria for hardware and software based on the operation and needs of the company.

Following the development of these criteria, we review existing hardware and software and make appropriate recommendations for purchase. If necessary, we design and program original software to fit special needs. Once the hardware and software are chosen, we assist businesses in purchasing, installing, and implementing the chosen solution. This process often includes conversion techniques, staff training and system or procedure documentation.

■ R.W. May and Associates Ltd.

414, 10310 - 102 Avenue,
Edmonton, Alberta,
T5J 2X6

Telephone: (403) 429 3680

- *Principal Officers:*

  R.W. May, *President*

- *Established in:* 1983

- *Number of Employees in Alberta:* 1-3

- *Make of computers software developed for:*
  - *Mainframe:* IBM 370
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Fortran, TSO
  - *Microcomputers:* Fortran, Basic

The company specializes in the design of custom software for scientific and technical applications in the geosciences in both mainframe and PC environments. Included in our services are the design, development, compilation and analysis of geoscientific data bases, particularly those which are project specific and require custom application services.

■ RE/SPEC Ltd.

005, 4616 Valiant Drive N.W.
Calgary, Alberta,
T3A 0X9

Telephone: (403) 288 7820

- *Principal Officers:*

  Hans Tammemagi, *Managing Partner*
  Richard Beddoes, *Secretary*

- *Established in:* 1981

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Mainframe:* DEC, VAX, Linc
  - *Minicomputer:* DEC, VAX, Linc
  - *Microcomputers:* HP and IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* DEC, VMS
  - *Minicomputer:* DEC, VMS
  - *Microcomputers:* HP Basic, MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Fortran 77
  - *Minicomputer:* Fortran 77
  - *Microcomputers:* Basic, Fortran

RE/SPEC Ltd., specializes in software development and analysis services for mining, geotechnical, oil and engineering applications. Areas of expertise include stability/design analyses for nuclear waste disposal and soil mechanics analyses for oil sands and heavy oil.

A series of finite element software has been developed for the above application for mini and mainframe computers. In addition, a broad series of graphics-rich, user friendly software has been developed for microcomputers. The microcomputer programs range from general purpose graphics packages and specialized boundary element and finite element solutions. RE/SPEC also offers training and courses on technical software.

■ Randall Carlton and Associates Ltd.

602, 5241 Calgary Trail,
Edmonton, Alberta,
T6H 5G8

Telephone: (403) 438 2368

- *Principal Officers:*

  Jim Lantz, *President*
  Randy Hancock, *Vice President*

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* Wang VS

- *Operating systems software developed for:*
  - *Minicomputer:* Wang

- *Programming languages software developed in:*
  - *Minicomputer:* Cobol

■ Resource Information Systems

12008 Lake Erie Way S.E.
Calgary, Alberta,
T2J 2M1

Telephone: (403) 263 2272

- *Principal Officers:*

  Peter Thompson, *President*

- *Established in:* 1980

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Programming languages software developed in:*
  - *Microcomputers:* Cobol

The firm specializes in systems consulting in upstream oil and gas systems, mainframe and microcomputers, project management, design, and programming.

■ Reynolds and Reynolds

1712 - 16th Avenue N.W.
Calgary, Alberta,
T2M 0L7

Telephone: (403) 282 6674

- *Head Office:*

  2100 Steeles Avenue E.
  Brampton, Ontario, L6T 3X1
  Telephone: (416) 791 4400

- *Branch Offices:*

  Edmonton: (403) 483 1962

- *Principal Officers:*

  Ken Sutter, *Vice President, General Manager*

- *Established in:* 1886

- *Number of Employees in Alberta:* **11-20**

- *Make of computers software developed for:*
  - *Minicomputer:* NCR, Onyx
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Minicomputer:* UNIX
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Minicomputer:* Basic, C
  - *Microcomputers:* Basic, Assembler

The firm specializes in complete computerization of automotive dealerships including shop scheduling, parts and service invoicing, sales and service merchandising, complete accounting with computerized invoices and payables cheques, and parts and vehicle inventory control.

We also provide factory to dealer communication systems allowing for direct ordering of parts and vehicles, warranty submissions, electronic mail etc.

The company produces one stop shopping to provide the hardware, software, support, consulting, and business forms needed for the automobile dealership.

We also provide management and offer software such as word processing, and electronic spreadsheet.

■ Riley's Database International Ltd.

1223 - 31st Avenue N.E.
Calgary, Alberta,
T2E 7W1

Telephone: (403) 291 3370

- *Branch Offices:*
  Houston, Texas: (713) 661 3434
- *Principal Officers:*
  D. Plewes, *President*
  R.K. Sadler, *Vice President, Finance*
- *Established in:* 1950
- *Number of Employees in Alberta:* **Over 30**
- *Make of computers software developed for:*
  - *Mainframe:* DEC 2060
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Mainframe:* TOPS 20
  - *Microcomputers:* PC-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Fortran
  - *Microcomputers:* Compiled Basic

The firm specializes in the following:

— Licensing of software to perform map digitizing and display, area and length calculations, scale transformations, map symbology and plotting functions
— Geographic data storage and retrieval for future use and edit all on IBM-PC's
— Commercial map digitizing using ariel photo's, maps and drawings as source documents
— Conversion to various formats provided

Distributor for software operating on IBM-PC's or compatibles in two areas:

— Geological workstations, includes mapping, cross sections, log analysis
— Engineering workstations with 37 commonly used reservoir engineering programs
— Well log digitization

■ Rinax Systems Ltd.

205 - 501A Cleveland Crescent S.E.
Calgary, Alberta,
T2G 4R8

Telephone: (403) 243 4074

- *Principal Officers:*

  John C. Wrenshall, *President*
  Neil Easton, *Vice President*
  Hans Buller, *Secretary-Treasurer*

- *Established in:* 1983

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Mainframe:* Data General
  - *Minicomputer:* Data General

- *Operating systems software developed for:*
  - *Mainframe:* RDOS
  - *Minicomputer:* RDOS

- *Programming languages software developed in:*
  - *Minicomputer:* Fortran, Assembler
  - *Microcomputers:* Fortran, Assembler

Rinax Systems Ltd., sells complete turnkey systems using Data General computers and Rinax

proprietary software. This software, over 7 years in development, features on-line/real time point of sale invoicing, and completely interactive inventory control, purchase order, sales analysis, accounts payable, accounts receivable, and general ledger. For companies with service shops, Rinax offers a full work order system with complete interface to other Rinax software.

The Rinax software supports multi-branch and/or multi-company operations. The same software operates on small systems with 3 or 4 total printers and terminals to large systems supporting up to 258 devices. The primary users of Rinax are in the automotive parts industry and in the heavy truck sales, service and repair shops.

Well planned and complete training puts a system on-site with a minimum of turmoil. On-going courses ensure our users of a continuing high level of performance from their computer investment.

■ Romark Ltd.

11624 - 149 Street,
Edmonton, Alberta,
T5M 3R3

Telephone: (403) 453 6616

- *Branch Offices:*

  Vancouver: (604) 435 7012

- *Principal Officers:*

  H. Reynard, *President and General Manager*
  F. de Geest, *Sales Engineer*

- *Established in:* 1957

- *Number of Employees in Alberta:* **1-3**

Romark Ltd., specializes in the following:

Sales of Control Comp. Systems Southwest Technical Product Corporation:

— Multiuser CAD and X-12+ systems and software flex and uniflex

— Husky Hunter: Harsh environment portable micro's - CP/M O/S

— Transwave Corp.: Arax Meteorological weather reporting systems, Xcalibur and Tiny Basic Control Comp, NK 1200 Dist. Measuring Computers

— Safetrak Traffic Systems Inc.: Type 170 and 179 Harsh Environment Control Comp. with AC or DC (46) Inputs and 56 AC outputs

— Swedish Geological Co.: Geomac II CP/M 80 Portable micro with A/D inputs

■ Roscom Software Services Ltd.

37 Point McKay Court N.W.
Calgary, Alberta,
T3B 4V7

Telephone: (403) 270 7242

- *Principal Officers:*

  Mark Ross, *President*
  Samantha Ross, *Vice President, Marketing*
  Neil Morrison, *Vice President, Software Development*

- *Established in:* 1984

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/ AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, Concurrent PC-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic, Cobol, Fortran, Assembler, C

Roscom Software Services Ltd., is a service oriented software house. Primary focus is placed on design and development of application software, targeted at major industry sectors. All application software is designed in conjunction with key industry personnel, thereby ensuring industry standards and validity.

Further to this primary focus, Roscom develops custom software packages, tailored exclusively to the individual's specific requirements. Roscom also offers total software support, continual updates, and complete training on all software.

A consulting service is available to clients with regards to selection of an appropriate hardware configuration. All recommendations are based on, not only the user's immediate and future requirements, but also on the system's adaptability to technological advancements.

■ SRD Software Research and Development Corp.

10126 - 118 Street,
Edmonton, Alberta,
T5K 1Y4

Telephone: (403) 482 3453

- *Branch Offices:*

  Calgary: (403) 266 8536
  Regina: (306) 359 7808

- *Principal Officers:*

  William A. Clark, *President*
  Darvin Heinemann, *Secretary-Treasurer*
  Mike Bell, *Director*

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* Cobol

SRD Software is an IBM Value Added Dealer in the microcomputer product line. Turn-key systems for medical and agricultural applications are marketed throughout Western Canada.

■ Schema Systems Limited

1500, 250 - 5th Avenue S.W.
Calgary, Alberta,
T2P 3H7

Telephone: (403) 266 1097

- *Principal Officers:*

  Keith Rutherford, *President*

- *Established in:* 1980
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Mainframe:* Sperry 1100
- *Operating systems software developed for:*
  - *Mainframe:* OS 1100
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Mainframe:* Fortran, Assembler
  - *Microcomputers:* Basic, Fortran

■ Scientific Software-Intercomp

1100, 603 - 7th Avenue S.W.
Calgary, Alberta,
T2P 2T5

Telephone: (403) 264 7205

- *Head Office:*

  4th Floor,
  1801 California Street,
  Denver, Colorado 80202, U.S.A.
  Telephone: (303) 292 1111

- *Branch Offices:*

  Houston, Texas: (713) 953 9272
  London, England: (011441) 930 6181

- *Principal Officers:*

  P.M. Stanton, *President*
  C.C. Fortems, *Vice President*
  E.A. Pantella, *Vice President*

- *Established in:* 1968

- *Number of Employees in Alberta:* **21-30**

- *Make of computers software developed for:*
  - *Supercomputer:* Cray
  - *Mainframe:* VAX, IBM, UNIVAC, PRIME
  - *Minicomputer:* Apollo, HP 9000
  - *Microcomputers:* Micro-Vax II, IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Supercomputer:* Most all
  - *Mainframe:* Most all
  - *Minicomputer:* Most all
  - *Microcomputers:* Most all

- *Programming languages software developed in:*
  - *Supercomputer:* Fortran
  - *Mainframe:* Fortran
  - *Minicomputer:* Fortran
  - *Microcomputers:* Fortran

Scientific Software-Intercomp (SSI) is a leading worldwide supplier of petroleum related software products. SSI has a broad base of software products ranging from reservoir and pipeline simulators to a complete package of totally integrated products for the petroleum reservoir engineering and geological workstation environment.

■ Servnex Computer Systems Ltd.

P.O. Box 1199, Station T,
Calgary, Alberta,
T2A 1P0

Telephone: (403) 272 6887

- *Principal Officers:*

  Don McIver, *President*
  Vermica McIvor, *Secretary-Treasurer*

- *Established in:* 1980
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Minicomputer:* Digital, IBM
- *Operating systems software developed for:*
  - *Minicomputer:* REXII, SSP
- *Programming languages software developed in:*
  - *Minicomputer:* CBL, RPGII

■ Simtech Consulting Services Ltd.

2005 Bow Valley Sq.,
205 - 5 Ave, S.W.
Calgary, Alberta,
T2P 2V7

Telephone: (403) 262 4885

- *Principal Officers:*

  A. Settari, *President*
  P.D. Puchyr, *Vice President*

- *Established in:* 1982
- *Number of Employees in Alberta:* **4-6**
- *Make of computers software developed for:*
  - *Supercomputer:* Cyber 205, CRAY
  - *Mainframe:* CDC, IBM
  - *Minicomputer:* DEC VAX
  - *Microcomputers:* Apollo, Micro-Vax, IBM AT
- *Programming languages software developed in:*
  - *Supercomputer:* Fortran 77
  - *Mainframe:* Fortran 77
  - *Minicomputer:* Fortran 77
  - *Microcomputers:* Fortran 77

■ Sittel Microsystems Ltd.

727 - 4A Street N.W.
Calgary, Alberta,
T2N 1P6

Telephone: (403) 283 9558

- *Branch Offices:*
  Quebec City: (418) 658 0185
- *Principal Officers:*
  Philippe Hamelin, *President, P. Eng.*
  Gilles Plante, *Secretary-Treasurer, P. Eng.*
- *Established in:* 1984
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* Epson Geneva, Epson QX 16
- *Operating systems software developed for:*
  - *Microcomputers:* CP/M, MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* C

Sittel has developed one major product: GEOLOG.™ This program can generate a geological strip log or a core litholog. It runs on a briefcase computer, the Epson Geneva.

Sittel also offers programming services using the C language under MS-DOS and CP/M.

Sittel has in-house facilities to program ROM's.

Our first custom program, called GEOLOG,™ generates a color strip log right at the wellsite. The strip log can be transmitted from the field using the Aurora cellular phone system and printed in color back at the office. GEOLOG,™ is a major breakthrough since it allows the geologist at the wellsite to concentrate on geology and not on drafting. GEOLOG™ meets or exceeds the current standards used for strip logs.

■ Soft Options

121 - 58 Avenue S.W.
Calgary, Alberta,
T2H 0A4

Telephone: (403) 255 5060

- *Branch Offices:*
  Calgary: (403) 270 3182
  Calgary: (403) 252 1310
- *Principal Officers:*
  David Evans, *President*
- *Established in:* 1981
- *Number of Employees in Alberta:* **21-30**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM, APPLE, C-64

Soft Option is one of the largest software retailers in Canada. We sell third party software to mostly business.

■ Software Integration Services

10807 - 123 Street,
Edmonton, Alberta,
T5M 0C7

Telephone: (403) 452 0692

- *Principal Officers:*
  Dean Perry, *President*
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM, Apple, Commodore
- *Operating systems software developed for:*
  - *Microcomputers:* PC-DOS, MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* C, Pascal, Basic, Cobol

■ Softworld Consulting Associates

163 Huntridge Road N.E.
Calgary, Alberta,
T2K 4B4

Telephone: (403) 274 8975

- *Principal Officers:*

  L.W. Bardell, *Senior Partner*
  Trent Schumann, *Senior Partner*
  Randy Connolly, *Associate Consultant*

- *Established in:* 1985

- *Number of Employees in Alberta:* **1-3**

■ Southern Computer Services Ltd.

Box 196,
Brooks, Alberta,
T0J 0J0

Telephone: (403) 362 5884

- *Principal Officers:*

  R.G. Breakell, *President*

- *Established in:* 1985

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* Sisiko, Esprit, Basic Four, Rexon
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* SMC Thoroughbred
  - *Microcomputers:* BFC BOSS

- *Programming languages software developed in:*
  - *Minicomputer:* Basic

The firm specializes in custom and packaged software (accounting) for Basic four, Boss and Thoroughbred operating systems in south east Alberta. Quotes upon request for full hardware/software configurations.

■ Star Technologies Ltd.

1590, 700 - 9th Avenue S.W.
Calgary, Alberta,
T2P 3V4

Telephone: (403) 269 6115

- *Branch Offices:*
  Toronto: (416) 626 7130
- *Principal Officers:*
  James Sherfey, *Vice President*
- *Number of Employees in Alberta:* **4-6**
- *Make of computers software developed for:*
  - *Supercomputer:* Star ST-100X PSP
- *Programming languages software developed in:*
  - *Supercomputer:* Fortran
  - *Mainframe:* Fortran

Star manufactures high speed (100 megaflops) low cost attached supercomputers used in all aspects of scientific processing.

In addition, Star supplies software for both application use and systems development in simulations, seismic data processing, image processing, and signal processing.

■ Starbase Technologies Inc.

11th Floor, Royal Trust Tower,
Edmonton, Alberta,
T5J 2Z2

Telephone: (403) 420 1696

- *Principal Officers:*
  George B. Durocher, *President*
- *Established in:* 1985
- *Number of Employees in Alberta:* **4-6**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, UNIX
- *Programming languages software developed in:*
  - *Microcomputers:* C

The Primary focus and specialization of Starbase Technologies is the marketing, development and distribution of microcomputer based CAD/CAM systems. Starbase is oriented to the design industry in general covering engineering, architecture, construction, and manufacturing. Software programs are designed to run on the IBM and AT & T line of microcomputers.

Activities of Starbase includes:

— Needs analysis
— Sale of system and peripherals
— Installation and integration of system to clients facility
— Training of operators and management personnel
— Ongoing support and maintenance of system.

■ Statcom Ltd.

250, 925 - 7 Avenue S.W.
Calgary, Alberta,
T2P 1A5

Telephone: (403) 265 4111

- *Principal Officers:*

  R.W. St. John, *President*
  P. Snethlage, *Secretary-Treasurer*

- *Established in:* **1974**

- *Number of Employees in Alberta:* **21-30**

- *Make of computers software developed for:*
  - *Minicomputer:* Perkin-Elmer

- *Programming languages software developed in:*
  - *Minicomputer:* Fortran, Pascal

The firm specializes in Seismic data processing and Map digitization.

■ Streamline Software Systems Ltd.

1421, 10104 - 103 Avenue,
Edmonton, Alberta,
T5J 0H8

Telephone: (403) 423 5571

- *Principal Officers:*

  Cyril Fernandes, *General Manager*

- *Established in:* **1985**

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Minicomputer:* Sperry
  - *Microcomputers:* IBM, Altos
- *Operating systems software developed for:*
  - *Minicomputer:* Votex
  - *Microcomputers:* Oasis
- *Programming languages software developed in:*
  - *Microcomputers:* Basic and Assembler

The firm specializes in the following:

— Package (hardware and software) microcomputers for accounting control and office automation

— Multi-user, multi-tasks, microcomputer

■ Sunearth Architectural Studio Ltd.

14424 - 85 Avenue,
Edmonton, Alberta,
T5R 3Z3

Telephone: (403) 486 0169

- *Principal Officers:*

  Bruce McFadden, *President*

- *Established in:* 1978
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, PC-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* Fortran 77

Sunearth software has specialized in providing computer systems to aid the design and construction industry. Emphasis has been on developing powerful estimating packages. Current work is oriented to integrating these with energy, economic, job management and job accounting systems. Sunearth software expands not only current specific job functions but also the communication potential between people associated with the building industry.

■ Synerlogic Inc.

1300, 635 - 8th Avenue S.W.
Calgary, Alberta,
T2Y 3N2

Telephone: (403) 237 6500

- *Branch Offices:*

  Edmonton: (403) 423 9992
  Vancouver: (604) 669 2213
  Toronto: (416) 923 6585
  Ottawa: (613) 238 5213
  Halifax: (902) 421 1722

- *Principal Officers:*

  Ken Tongue, *President*
  Ken Burnett, *Director of Research*
  Ragnar Ingelman, *Vice President, Finance*
  Dave Seibel, *Vice President, Consulting*

- *Established in:* 1975

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Mainframe:* IBM
  - *Microcomputers:* IBM, Apple

- *Operating systems software developed for:*
  - *Mainframe:* MVS, MS-DOS
  - *Microcomputers:* IBM, PC-DOS, Blue Bird, Super DOS

- *Programming languages software developed in:*
  - *Mainframe:* Assembler
  - *Microcomputers:* Basic

Synerlogic is a software services and products company with 6 offices across Canada and sales activity in the USA and Europe. The service division specializes in consulting education and system development for a wide range of applications for major corporations and various government departments.

Product sales are mainly focused on:

— computer based training (CBT) for data processors
— a prototyping tool for on-line system development
— a complete hotel management system

■ Systems West Consultants Ltd.

1960, 10303 Jasper Avenue,
Edmonton, Alberta,
T5J 3N6

Telephone: (403) 425 1494

- *Head Office:*

  Suite 512, 130 Albert Street,
  Ottawa, Ontario, K1P 5G4
  Telephone: (613) 236 2551

- *Branch Offices:*

  Vancouver: (604) 681 4161
  Toronto: (416) 422 0559

- *Principal Officers:*

  Stewart G. Ingram, *President*
  Wayne R. Ingram, *Vice President*
  Lynwood S. Bell, *Director*

- *Established in:* 1978

- *Number of Employees in Alberta:* **21-30**

- *Make of computers software developed for:*
  - *Mainframe:* IBM
  - *Microcomputers:* IBM-PC and Compatibles, Apricot

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic

Systems West publishes and distributes two lines of business software.

The first line, called STEP:1, is an entry-level accounting system (GL, AP, AR, Invoicing) available on a license to distribute basis to hardware manufacturers, schools, retail computer stores, franchise operations.

The second line, called THE PARTNER SERIES is a sophisticated, full function line of products for the accounting profession and small business.

THE PROFESSIONAL PARTNER is a client write-up system for accountants that includes the functions of GL, financial statements, preparation, fixed assets register, cash flow, forecasting and budgets, and a letter writer module.

The BUSINESS PARTNER is as above plus A/R, A/P, invoicing, inventory and job costing.

The TIME PARTNER is a time and billing system for accountants, consultants, lawyers, etc., who bill

directly for their time.

The INVESTMENT PARTNER is an estate and trust management system for companies who manage investments for estates and trusts.

The PARTNER series of systems are being marketed by consultants and dealers who receive comprehensive training form Systems West Consultants Ltd.

■ Systems Plus

2000, 425 - 1st Street S.W.
Calgary, Alberta,
T2P 3L8

Telephone: (403) 263 1135

- *Principal Officers:*

  Edith Wenzel, *President*

- *Number of Employees in Alberta:* **11-20**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* DBASE

Systems Plus specializes in management systems for oil and gas. We have designed two advanced land management systems for refined reporting on mineral and surface lease inventory, and oil and gas contract reporting. Our system is available on a purchase, lease/purchase, or lease basis. The land management systems are most advantageous to land departments, accounting and production departments.

Our personnel software would be of benefit to all personnel departments or agencies.

■ Technical Services Group

Bay 17, 4220 - 23 Street N.E.
Calgary, Alberta,
T2E 6X7

Telephone: (403) 250 5193

- *Principal Officers:*

  Glen D. Overend, *President*

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* Assembler, C, Pascal

The firm specializes in software and Hardware support of R & D systems. Systems integration for data collection, CAD, CAM, Robotics and aircraft base research.

■ Teknica Resource Development Ltd.

1100, 736 - 6th Avenue S.W.
Calgary, Alberta,
T2P 3T7

Telephone: (403) 269 4386

- *Branch Offices:*

  Teknica Inc., Houston,
  Texas, U.S.A.: (713) 931 7051

- *Principal Officers:*

  Roy O. Lindseth, *President*
  Peter B. Swidzinski, *Senior Vice President, Finance*
  Robert C. Mummery, *Vice President, Seislog*
  Fran S.J. Munoz, *Vice President, Research and Development*

- *Established in:* 1972
- *Number of Employees in Alberta:* Over 30
- *Make of computers software developed for:*
  - *Mainframe:* IBM
  - *Minicomputer:* Perkin Elmer
  - *Microcomputers:* Xerox, IBM-PC
- *Operating systems software developed for:*
  - *Mainframe:* MVS/VM/CMS
  - *Microcomputers:* MS-DOS, Interlisp
- *Programming languages software developed in:*
  - *Mainframe:* Fortran
  - *Microcomputers:* Fortran, Lisp

Teknica provides seismic and inversion processing and interpretation services. Products are under development to assist in interactive petroleum exploration interpretation. Product focus is on workstation technologies encompassing artificial intelligence, high performance color graphics, and optical disk storage.

■ Telephone Exploration Ltd.

221 62 Avenue S.E.
Calgary, Alberta,
T2H 1X3

Telephone: (403) 255 7784

- *Head Office:*

  5825 Chinney Rock Road,
  Houston, Texas 77236, U.S.A.
  Telephone: (713) 666 2561

- *Branch Offices:*

  Metairir, Louisiana: (504) 885 1641
  Midland, Texas: (915) 682 5383

- *Principal Officers:*

  R.D. St.Clair, *Vice President and Division Manager*
  J.R. Baker, *Regional Manager, Data Processing*

- *Number of Employees in Alberta:* **21-30**

- *Make of computers software developed for:*
  - *Mainframe:* IBM

- *Programming languages software developed in:*
  - *Mainframe:* Fortran, Assembler

■ The Datatron Group

200, 817 - 4 Avenue S.
Lethbridge, Alberta,
T1J 0P3

Telephone: (403) 329 3282

- *Branch Offices:*

  Calgary: (403) 291 1640
  Edmonton: (403) 489 4449
  Medicine Hat: (403) 527 1175

- *Principal Officers:*

  R.A. Chapman, *President*
  E.W. Nowlin, *Vice President*
  M.J. Ostafichuk, *Vice President, Marketing and Sales*

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Mainframe:* IBM 4341 - 11
  - *Minicomputer:* IBM System /36
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* VM/SP
  - *Minicomputer:* SSP
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* PL1, RPGII
  - *Minicomputer:* Cobol, RPGII
  - *Microcomputers:* Basic, Cobol

The Datatron Group is a group of six companies providing Mainframe Computer Services, Computer Consulting Services, Retail Micro-computers and Turn-key Systems for micro and minicomputers. Full service and support is provided for Apple, Texas Instruments and IBM products.

Our primary focus on software is to develop industry specific software, applicable to micro and/or minicomputers for turn-key installations, using IBM microcomputers and the IBM System /36 minicomputer. Customized mainframe software is available for virtually any business application.

Software has been developed or acquired for IBM microcomputers for turn-key installations applicable to the Medical Practitioner, Chiropractor and Veterinarian. Software has been developed for the IBM System /36 for turn-key installations applicable to School Board Administration, Local Government Administration, General Business Accounting and Medical Practitioners.

The Datatron group is a group of six companies, providing mainframe Computer Services, Computer Consulting Services, IBM and Apple microcomputers through two retail stores, and turn-key micro and minicomputer systems using IBM microcomputers and the IBM System /36 minicomputer.

Turn-key systems are presently provided to Medical Practitioners, Chiropractors, Veterinarians, School Board Administration, Local Government Administration and General Business Accounting Systems.

Sixty-seven people are located in our offices in Lethbridge, Calgary, Edmonton, and Medicine Hat.

Our primary market area today is Alberta, although our Veterinary Practise Manager (VPM) has been sold in Western Canada and Ontario. We have developed all software except VPM.

■ The Decision Division

P.O. Box 1075 Station G,
Calgary, Alberta,
T3A 3G3

Telephone: (403) 288 8271

- *Principal Officers:*

  Greg Sandau, *President*
  Brian Cox, *Vice President*
  Mike Kirkegaard, *Secretary-Treasurer*

- *Established in:* 1985

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, PC-DOS

- *Programming languages software developed in:*
  - *Microcomputers:* Fortran, Pascal, Basic, APL

The Decision Division is a consulting company involved in the ongoing business of providing software for organizations using microcomputers.

Our services include hardware configuration, software recommendations and set-up, and applications development for a variety of end-users.

Our group has, through its work and educational background, acquired a broad range of expertise in computerized applications.

■ The McElhanney Group Ltd.

450, 999 - 8th Street S.W.
Calgary, Alberta,
T2R 1J5

Telephone: (403) 245 4711

- *Head Office:*

  200, 1166 Alberni Street,
  Vancouver, British Columbia, V6E 3Z3

- *Branch Offices:*

  Nepean, Ontario: (613) 225 9170
  St. John's, Newfoundland: (709) 726 4252
  Dartmouth, Nova Scotia: (902) 463 0041

- *Principal Officers:*

  R.A. Brocklebank, *President*
  D.B. Thomson, *Vice President, Advanced Technology*
  C.J. Zarowny, *Vice President, Surveying and Engineering*
  M.R. McKinney, *Manager, Computer Services*

- *Established in:* 1910
- *Number of Employees in Alberta:* **Over 30**
- *Make of computers software developed for:*
  - *Mainframe:* VAX
  - *Minicomputer:* PDP, HP 9000
  - *Minicomputer:* 200, 300 and 500 Series
- *Operating systems software developed for:*
  - *Mainframe:* VMS
  - *Minicomputer:* UNIX, RSX-11M
  - *Microcomputers:* Basic, Pascal, HPL
- *Programming languages software developed in:*
  - *Mainframe:* Fortran
  - *Minicomputer:* Fortran, C, Pascal
  - *Microcomputers:* Basic, Pascal, C

From real time in the field to large batch processing in the office, survey calculations are McElhanney's strength.

McElhanney's Computer Systems Specialists undertake all facets of land and marine survey software development for collection, processing, graphics and plotting. Systems development teams coordinate software development with hardware capability in support of McElhanney's many ongoing technical activities in such diverse areas as geophysical and hydrographic charting, offshore navigation, navigation processing, geodetic/satellite network surveys, inshore navigation, and conventional land seismic surveys.

Achieving and maintaining state-of-the-art status is contributable to streamlining production cycles as operating experience is gained. Commencing with an assessment of the client's needs, systems specialists determine the most suitable hardware, develop a program and documentation to interface with any computer hardware including peripheral equipment, and then field test the system prior to training the client's staff.

■ The SNC Group

10130 - 103 Street,
Edmonton, Alberta,
T5J 3N9

Telephone: (403) 422 6288

- *Head Office:*

  1 Complex Desjardins,
  Montreal, Quebec, H5B 1C8
  Telephone: (514) 282 9551

- *Branch Offices:*

  Calgary: (403) 253 6641
  Lethbridge: (403) 320 8886
  Saskatoon: (306) 244 0155

- *Principal Officers:*

  G.R. Gerry, *Vice President*
  W.R. McMillan, *Manager*

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Mainframe:* PDP 11, VAX
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, UNIX, Pascal

- *Programming languages software developed in:*
  - *Mainframe:* Fortran, Pascal
  - *Microcomputers:* Basic, C, Pascal

The firm specializes in custom design software related to fully automatic industrial process control, energy management and custody transfer programs using micro-processor based industrial programmable logic controllers, micro and main frame computers.

We develop engineering programs relating to computerized computation of system parameters for process control.

■ Thirsk Computer Consulting

107 Woodside Circle S.W.
Calgary, Alberta,
T2W 3K1

Telephone: (403) 238 1559

- *Principal Officers:*

  Richard Thirsk, *P. Eng.*

- *Established in:* 1978

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Minicomputer:* DG Eclipse
  - *Microcomputers:* Intel 8085

- *Operating systems software developed for:*
  - *Minicomputer:* DG's ABS
  - *Microcomputers:* (Custom OS)

- *Programming languages software developed in:*
  - *Minicomputer:* Pascal, Fortran, Assembler
  - *Microcomputers:* Assembler

The primary focus of the company is the provision of professional services for software development including systems analysis, systems design, programming and training, with specialization in microprocessor-based electronic machinery and minicomputers.

The electrical engineering expertise within the company provides the ability to do custom modifications to hardware and operating system (control program) firmware.

The company has been involved in the development of data acquisition and control systems, computer to computer interfaces, applications software for the oil and gas industry, and operating system software such as input/output device drivers, device diagnostics, and disassemblers.

■ Thorn EMI Computer Software Ltd.

301, 215 - 10 Avenue S.W.
Calgary, Alberta,
T2R 0A4

Telephone: (403) 234 9785

- *Head Office:*
  285 Mill road,
  Chelmsford, Massachusetts 01824, U.S.A.
  Telephone: (617) 256 3900

- *Branch Offices:*
  Toronto: (416) 279 8711
  Ottawa: (613) 234 1414
  Vancouver: (604) 669 4250

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Mainframe:* IBM
  - *Minicomputer:* Wang, DG, VAX, HP
  - *Microcomputers:* IBM-PC/AT and Compatibles

- *Operating systems software developed for:*
  - *Mainframe:* TSO, MVS, DOS, CMS
  - *Minicomputer:* VS, AOS/VS, VMS, MPE
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Assembler
  - *Minicomputer:* Assembler, Fortran
  - *Microcomputers:* C

■ Thorne Riddell Associates

2900, 10104 - 103 Avenue,
Edmonton, Alberta,
T5J 3V8

Telephone: (403) 425 0240

- *Principal Officers:*

  Ronald J. Ellen, *Partner*
  Terry A. Morris, *Manager, Operations*

- *Number of Employees in Alberta:* **Not available**

- *Make of computers software developed for:*
  - *Mainframe:* IBM
  - *Minicomputer:* IBM
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Minicomputer:* SSP
  - *Microcomputers:* PC-DOS, MS-DOS

- *Programming languages software developed in:*
  - *Mainframe:* Cobol
  - *Minicomputer:* Cobol
  - *Microcomputers:* Cobol, Basic

The firm specializes in specification, development and implementation of custom business software products.

■ Thorne Stevenson and Kellogg

2800, 10104 - 103 Avenue,
Edmonton, Alberta,
T5J 0H8

Telephone: (403) 429 1407

- *Head Office:*

  2300 Yonge Street,
  Toronto, Ontario, M4P 1G2.
  Telephone: (416) 483 4313

- *Branch Offices:*

  Calgary: (403) 269 4976
  Vancouver: (604) 669 4600
  Saskatoon: (306) 244 1466
  Winnipeg: (204) 944 1014

- *Principal Officers:*

  Gabriel Shelley, *Partner*

- *Established in:* 1936

- *Number of Employees in Alberta:* **11-20**

As part of a general management consulting practice, we offer our clients assistance in planning, implementing, and assessing computer based information systems.

Our particular areas of expertise include strategic planning, master planning, project management, needs assessment, equipment selection, office automation and executive education.

■ Total Computers Ltd.

521 - 5 Street South,
Lethbridge, Alberta,
T1J 2B9

Telephone: (403) 320 1448

- *Principal Officers:*

  Brian Roelofs, *President*
  E.W. Hinman, *Director*

- *Established in:* 1980

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Minicomputer:* Alpha Micro
  - *Microcomputers:* Alpha Micro

- *Operating systems software developed for:*
  - *Minicomputer:* AMOS, AMOSL
  - *Microcomputers:* AMOS, AMOSL

- *Programming languages software developed in:*
  - *Minicomputer:* Basic
  - *Microcomputers:* Basic

Total Computers Ltd., specializes in the assembly, installation, and training of several vertical market turnkey systems using the highly reliable and cost efficient ALPHA MICRO hardware. Our staff of professional programmers has spent the last six years creating software packages specifically tailored to the following business applications:

— Total accounting - GL, AR, AP, Canadian Payroll
— T.I.C.S. - Total Inventory Control System
— T.I.R.E.S. Tire Inventory Retrieval and Entry System
— S.M.A.R.T. School Management Attendance, Records, Timetabling
— C.A.R.S. Complete Automotive Retailing/ Repair System
— L.A.W.S. Legal Accounting with Smarts
— T.D.S. Total Dental System
— T.I.S. Total Insurance System
— C.A.A.R. Chartered Accountants Accounts Receivable
— EDCALC Electronic Spreadsheet.

As our name implies, we are dedicated to providing TOTAL hardware, software, and service support for the computer systems we sell.

■ Unexsys Systems Inc.

130, 4808 - 87 Street,
Edmonton, Alberta,
T6E 5W3

Telephone: (403) 468 1844

- *Principal Officers:*

  Gordon Derk, *President*
  David Kauffman, *Secretary-Treasurer*

- *Established in:* 1985

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Mainframe:* Convergent, AT and T
  - *Minicomputer:* Sperry, NCR

- *Operating systems software developed for:*
  - *Mainframe:* UNIX
  - *Minicomputer:* UNIX

- *Programming languages software developed in:*
  - *Mainframe:* SMC, Basic, C

Our company's focus is on the UNIX operating system. We are VAR's for popular accounting and office automation software and hardware solutions.

Due to the nature of the UNIX system we are virtually unrestricted as to the choice of hardware that we can use.

■ University of Alberta Hospitals

8440 - 112 Street,
Edmonton, Alberta,
T6G 2B7

Telephone: (403) 432 6935

- *Principal Officers:*

  D. Cramp, *President*
  D. Bennet, *Vice President, Finance*
  A. Haskell, *Director, Information Systems*

- *Established in:* 1912

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Mainframe:* IBM, Amdahl
  - *Minicomputer:* Tandem

- *Operating systems software developed for:*
  - *Minicomputer:* Guardian

- *Programming languages software developed in:*
  - *Mainframe:* Cobol
  - *Minicomputer:* Cobol

The University of Alberta Hospitals is a 1,400 bed acute and chronic care facility. Over the years it has developed an integrated information system for its own purposes which is also attractive to many other hospitals who have adopted the components. It is currently a provider of fault-tolerant, on-line systems for use in the admitting, medical records, diagnostic services, material management and nursing care areas of a hospital and is actively extending the on-line service to accounting and other functional areas.

■ Veritas Software Ltd.

615 - 3 Avenue S.W.
Calgary, Alberta,
T2P 096

Telephone: (403) 262 5538

- *Principal Officers:*

  Mike Galbraith, *President*
  Dan Hampson, *Vice President, Research and Development*
  Doug Hopkins, *Vice President, Applications*
  Brian Russell, *Vice President, Training*

- *Established in:* 1984
- *Number of Employees in Alberta:* **21-30**
- *Make of computers software developed for:*
  - *Mainframe:* IBM 3083
  - *Minicomputer:* VAX 8600, Micro-Vax
  - *Microcomputers:* IBM-XT/AT and Compatibles
- *Operating systems software developed for:*
  - *Mainframe:* VM/MVS - IBM
  - *Minicomputer:* VMS - DEC
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Mainframe:* Fortran
  - *Minicomputer:* Fortran
  - *Microcomputers:* C

Veritas Software Ltd., develops, markets and supports quality seismic software for use by the exploration industry.

Products range from complete seismic processing systems to specialized packages running on DEC computers (Vax) and IBM. In particular the refraction statistics analysis package and recent advances in vertical seismic profile processing techniques are accepted as being industry leaders in North America.

Our IBM-PC package, incorporating ideas from mainframe software, is becoming widely accepted as a standard in interactive geophysical processing.

■ Vertex System Resources Ltd.

507, 4600 Crowchild Trail N.W.
Calgary, Alberta,
T3A 2L6

Telephone: (403) 286 6911

- *Principal Officers:*

  R.A. Cheadle, *President*

- *Established in:* 1978
- *Number of Employees in Alberta:* **11-20**
- *Make of computers software developed for:*
  - *Minicomputer:* Texas Instruments
- *Operating systems software developed for:*
  - *Minicomputer:* Texas Instruments, DNOS
  - *Microcomputers:* MS-DOS

- *Programming languages software developed in:*
  - *Minicomputer:* Cobol

The firm specializes in integrated administrative software for petroleum exploration and production companies. Includes financial and interest accounting, lease and property management, budget forecasting, financial statements, and corporate management reporting. Designed for independents from 5 to 150 employee size range.

Productivity aids: Drilling report, prospect economics, word processing, financial modelling.

■ Viatec Resource Systems Inc.

114, 6815 - 8th Street N.E.
Calgary, Alberta,
T2E 7H7

Telephone: (403) 275 6702

- *Branch Offices:*
  Toronto: (416) 366 4814
  St. John's: (709) 726 5086
- *Principal Officers:*
  John J. Shepherd, *Chairman*
  Michael J. McKinnon, *General Manager*
- *Established in:* 1980
- *Number of Employees in Alberta:* **11-20**
- *Make of computers software developed for:*
  - *Minicomputer:* DEC 11/23
  - *Microcomputers:* IBM, Z-80
- *Operating systems software developed for:*
  - *Minicomputer:* RT-11, RSX-11
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Minicomputer:* Pascal, Fortran
  - *Microcomputers:* Basic, Fortran

Viatec specializes in custom hardware and software design related to data acquisition and image processing.

Custom communications and data analysis for oil production facilities, as well as radar data analysis and modelling are Viatec's main areas of expertise.

Real time and near real time software has been developed to run on DEC and IBM systems.

■ Visitech Graphic Resources Inc.

3115 - 12 Street N.E.
Calgary, Alberta,
T2G 7J2

Telephone: (403) 250 1266

- *Principal Officers:*

  G. Krahulic, *Chief Executive Officer*
  Ken Borrie, *President*
  Tom Hewitt, *Vice President*

- *Established in:* 1984

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Minicomputer:* VAX

- *Operating systems software developed for:*
  - *Minicomputer:* VMS

- *Programming languages software developed in:*
  - *Minicomputer:* Fortran

Visitech offers computer Software and Professional Services to a range of applications in the Geosciences.

These products and services are aimed at organizations that extend the use of Interactive Graphics beyond a simple drafting tool. The product interfaces have been designed for a professional, who is typically an occasional user of a system.

The applications for which Visitech can be of assistance are those that are Geographical-based Information Systems, that intergrate a range of analytical tools to create a total solution.

Visitech's INSIGHT Surfaces Modelling System has been used for petroleum and mining exploration, as well as for the generation of surface topography. A general purpose archiving capability, the CACHE system is available for all Digital Equipment Corporation's VAX/ VMS systems.

■ Walford and Foy

315, 111 - 11th Avenue,
Calgary, Alberta,
T2R 0G5

Telephone: (403) 229 2550

- *Principal Officers:*

  David Foy, *Partner*
  Jenie Walford, *Partner*

- *Established in:* 1972

- *Number of Employees in Alberta:* **11-20**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/AT and Compatibles

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS

Walford and Foy are a typesetting firm which is evolving into a world-scale text-processing service centre. Part of this effort involves development of software to integrate the various typesetting, word processing, telecommunications, and database publishing technologies.

we are attempting to develop competence in applications software in our own field, so we can migrate into other text-processing and publishing technologies when opportunities arise.

■ Watson Computer Products Inc.

1323 - 44 Avenue N.E.
Calgary, Alberta,
T2E 6L5

Telephone: (403) 250 2288

- *Head Office:*

  114 West 8th Avenue,
  Vancouver, British Columbia, V5Y 1N2.
  Telephone: (604) 872 0631

- *Branch Offices:*

  Edmonton: (403) 434 7889
  Toronto: (416) 673 8060
  Montreal: (514) 875 8801
  Winnipeg: (204) 772 9411

- *Principal Officers:*

  Joe Calabella, *Peripherals Division, Sales*
  Tom Duffy, *Power Division, Sales*

- *Established in:* 1975

- *Number of Employees in Alberta:* **1-3**

The firm provides all points addressable laser printers as output devices for graphics software packages. Our printers can emulate Versatec, Calcomp, and Tektronix plotters.

■ Westacott Software Limited

12127 - 53 Street,
Edmonton, Alberta,
T5W 3L8

Telephone: (403) 477 7616

- *Principal Officers:*
  Dwayne J.C. Westacott, *President*
- *Established in:* 1982
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* 650ZC
- *Programming languages software developed in:*
  - *Microcomputers:* Basic, Assembler

The company was formed in 1982. The company currently offers some software, but is currently in it's research and development phase.

■ Western Computing Ltd.

10576 - 113 Street,
Edmonton, Alberta,
T5H 3H5

Telephone: (403) 426 6012

- *Principal Officers:*
  Ken Moseley, *President*
- *Established in:* 1967
- *Number of Employees in Alberta:* **11-20**
- *Make of computers software developed for:*
  - *Minicomputer:* Ultimate
- *Operating systems software developed for:*
  - *Minicomputer:* Pick
- *Programming languages software developed in:*
  - *Minicomputer:* Basic

Western Computing Ltd., operates a time sharing service bureau. We specialize in packages for lawyers, law societies and wholesalers.

■ Westra and Associates Inc.

7807 - 121 Avenue,
Edmonton, Alberta,
T5B 4T3

Telephone: (403) 471 2553

- *Principal Officers:*

  Robert Westra, *President*
  Vyrle Westra, *Secretary*

- *Established in:* 1983
- *Number of Employees in Alberta:* **1-3**
- *Make of computers software developed for:*
  - *Microcomputers:* IBM-XT/ AT and Compatibles
- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS
- *Programming languages software developed in:*
  - *Microcomputers:* Basic, Pascal

The firm specializes in preparing and modifying software needs for the agriculture industry, including spreadsheet databases to meet industry needs in areas of nutrition, finance, cash flow, sales, cropping and farm management.

The firm also provides consulting services for software purchasing decisions and training for operating various systems.

■ Wighton C.A.I. Services

204, 5104 - 82 Avenue,
Edmonton, Alberta,
T6B 0E6

Telephone: (403) 468 5177

- *Principal Officers:*

  David Wighton, *President*

- *Established in:* 1985
- *Number of Employees in Alberta:* **1-3**

The firm's focus of activities are: to assist educators, publishers and government officials in the

development, assessment and use of microcomputer courseware materials with Computer Assisted Instruction programs.

■ Willowglen Systems Ltd.

1, 1235 - 64 Avenue S.E.
Calgary, Alberta,
T2H 2J7

Telephone: (403) 253 3051

- *Principal Officers:*

  Fergus Byrne, *President*
  Malcolm Milne, *Vice President*

- *Established in:* 1980

- *Number of Employees in Alberta:* **Over 30**

- *Make of computers software developed for:*
  - *Minicomputer:* DEC
  - *Microcomputers:* M6800 FAMILY

- *Operating systems software developed for:*
  - *Minicomputer:* RSX-11M+
  - *Microcomputers:* Proprietary

- *Programming languages software developed in:*
  - *Minicomputer:* Macro-11, Fortran
  - *Microcomputers:* Assembler, C

Willowglen is one of Alberta's largest electronics manufacturing, programming, and engineering companies specializing in real-time process and supervisory control applications. Since its formation in 1974 through the acquisition of two existing electronics engineering firms in Alberta, it has maintained a controlled but aggressive growth.

In July 1980, a group of major local industrialists, recognizing that Willowglen's product and organizational strengths could significantly serve to broaden their industrial base and provide valuable future R & D for related interests, purchased a controlling interest in the company. This significant investment coupled with the group's excellent managerial resources and their solid commitment to the energy industry further enhances Willowglen's ability to serve its clients.

Willowglen's full time staff, augmented by experienced automation consultants, operate from a large, modern Calgary facility which houses the company's general offices, manufacturing facilities, research and development area, and system staging areas.

Willowglen is organized to serve clients who wish to actively manage and participate in their automation projects while contracting for the temporarily needed resources required to produce their control systems. While the Company offers a comprehensive electronic product line, and software and firmware products for sale individually and for use in the systems it manufacturers, it likes to characterize its activities as a service. At Willowglen, the resources of a system house are made conveniently available in one place:

Project Management

Control system architects who have intimate knowledge of, and experience using, most commercially

available control systems equipment and software products.

Creative programming talent

— **Digital and analog circuit designers**
— **Process experts: in house, consultants and subcontractors**
— **Software and firmware development facilities**
— **Electronic manufacturing**
— **Technical publishing facilities**
— **Environmentally controlled and specially powered system staging facilities**
— **Electronic tools and test equipment**
— **Long-term software maintenance services**
— **Equipment maintenance services**
— **General office facilities and services.**

Through these facilities, the Company has the capability of implementing all or any phase of an automation project.

■ Wise Software Solutions

9250 McLeod Trail South,
Calgary, Alberta,
T2J 0P5

Telephone: (403) 252 0944

- *Principal Officers:*

  Irvine Hinds, *President*
  Tony Nunziata, *Vice President*

- *Established in:* 1984

- *Number of Employees in Alberta:* **4-6**

- *Make of computers software developed for:*
  - *Microcomputers:* IBM PC, Apple, C-64

- *Operating systems software developed for:*
  - *Microcomputers:* MS-DOS, C-64 OS

- *Programming languages software developed in:*
  - *Microcomputers:* Basic

Wise Software is compromised of the following divisions:

— Retail outlet - primary focus is to the home market user. The C-64, IBM PC/XT compatible and Apple Compatible are sold as well as the software, accessories and supplies to support these machines.
— Software consists of entertainment, utilities, education and small business (home management).
— Commercial sales - Outside sales force is engaged to sell IBM PC/XT compatible and business software to the commercial market.

■ Year/ Scan

107, 11820 - 101 Street,
Edmonton, Alberta,
T5G 2B7

Telephone: (403) 471 3897

- *Principal Officers:*

  Albert Coywe, *Owner*

- *Established in:* 1977

- *Number of Employees in Alberta:* **Not available**

- *Make of computers software developed for:*
  - *Microcomputers:* Tandy RS-80, IBM-XT/ AT and Compatibles

The firm specializes in innovative project planning scheduling software utilizing unique horizontal and interlocking calendar design. (Copyright).

■ Yellowhead Datapro

Box 1450,
Edson, Alberta,
T0E 0P0

Telephone: (403) 723 4475

- *Principal Officers:*

  Ernie Mushtuk, *President*
  Herman Jochimsen, *Secretary*

- *Number of Employees in Alberta:* **1-3**

- *Make of computers software developed for:*
  - *Microcomputers:* Tandy

Yellowhead Datapro is of interest to travel agencies of all sizes and volumes. Functions include B.S.P. ticketing, itineraries, invoices, sales analysis, B.S.P. Reports, posting to accounts receivables/ payables, customer month-end balance sheets and customer statements.

The TRAVPRO system was designed as a total Stand Alone independent of any airline mainframe computers. However, it will interface with Air Canada's RESERVEC.

The System's strength is in its simplicity. Designed by travel agents and evolved in a travel agency environment, it has been in active use since 1981.

■ 259943 Alberta Limited

200, 3015 - 12 Street N.E.
Calgary, Alberta,
T2E 7J2

Telephone: (403) 250 9113

- *Principal Officers:*

  M. Finch, *President*
  M. Lalonde, *Vice President, Support*

- *Established in:* 1981

- *Number of Employees in Alberta:* **7-10**

- *Make of computers software developed for:*
  - *Microcomputers:* ALTOS, IBM

- *Operating systems software developed for:*
  - *Microcomputers:* UNIX, MS-DOS, CP/M, XENIX

- *Programming languages software developed in:*
  - *Microcomputers:* Basic, APPGEN, C

259943 Alberta Limited is a supplier of complete business computer solutions to small and medium sized companies. 259943 Alberta Limited provides supermicro multi-user hardware, software, software customization, installation, training, and support.

259943 Alberta Limited's main expertise is in inventory and project cost applications, but in total has software modules for G/L, A/R, A/P, order entry, inventory, job cost, payroll, material requirement planning, bill of material, database, word processing, spreadsheet and electronic mail, mostly for XENIX or UNIX based machines.

Executive Officers

EXECUTIVE OFFICERS

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Abell, Robert A., *President,* Alphatel Computer Products
Abell, Robert A., *President,* Alphatel Systems Ltd.
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Affleck, Ian, *Sales Manager,* Comtech Group International Ltd.
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Anger, Clifford, *President,* Instar Corporation
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Pantella, P., *Executive Vice President*, Petresim Engineering Ltd.
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Stackelberg, Peter von, *Vice President,* Paper Chase Text Conversion Services
Stanton, P.M., *President,* Scientific Software-Intercomp

Steeves, Tim, *Vice President,* Laser Software Limited
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Stewart, Larry, *Sales Manager,* MDS Quantel Canada Inc.
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Unverricht, E., *EDP Manager,* Bass Ticket Service Ltd.
Van der Zee, P.J. *General Manager,* Datek Industries Limited
Verrall, John, *President,* J.A.V. Systems Development Ltd.
Verrall, Sharon, *Secretary,* J.A.V. Systems Development Ltd.
Vysniauskas, T., *Vice President,* Hyprotech Ltd.
Wakzak, Mike, *Canadian General Manager,* Management Science America (Canada) Ltd.
Walford, Jenie, *Partner,* Walford & Foy
Walker, Martin, *Research & Development Manager,* Myrias Research Corporation
Wallace, D., *President,* Edmonton Data Centre
Wenzel, Edith, *President,* Systems Plus
Westacott, Dwayne J.C., *President,* Westacott Software Limited
Westra, Robert, *President,* Westra & Associates Inc.
Westra, Vyrle, *Secretary,* Westra & Associates Inc.
Whitehead, R.J., *Partner in charge, Calgary Office,* Coopers & Lybrand
Whiting, Phil, *President,* Phil Whiting Computer Systems Ltd.
Wiehler, H., *Vice President & Secretary-Treasurer,* Cipher Systems Ltd.
Wighton, David, *President,* Wighton C.A.I. Services
Wilson, J.W., *Vice President,* Procom Computing Systems Inc.
Wilson, W.T., *Vice President,* BRC Computer Services Ltd.
Wrenshall, John C., *President,* Rinax Systems Ltd.
Ysvrcek, W., *President,* Hyprotech Ltd.
Zarowny, C.J., *Vice President,* The McElhanney Group Ltd.

Software Categories

SOFTWARE CATEGORIES

■BUSINESS APPLICATION SOFTWARE

Accounting
Accounts payable and receivable
Advertising and mailing
Agriculture and farm management
Architecture
Automotive
Banking and finance
Billing
Broadcasting and film
Budget and forecast
CAL computer aided learning
CNC
CPM and PERT
Cash management
Chiropractic practices
Chronological data & time series
Classified ad-taking for newspapers
Communications
Construction
Consulting
Contractors
Control and measurement
Custom applications
Custom software
Database query system
Daycare hospital maintenance
Dentistry
Distribution
Econometric
Education and industrial training
Electronics
Energy
Engineering
(Civil or Geotechnical)
Expert systems
(artificial intelligence)
File and mail list management
Financial analysis and modeling
Financial system
Food management
Forestry
Fully integrated control systems
General ledger
Geological strip lot
Government services
Graphics
Gravel
Hospitality
Hotel housekeeping
Import-export
Industrial automation
Insurance
Integrated software
Interactive videodisc courseware
Inventory control
Investment management
Job costing
Job scheduling
Labor reporting
Land management (oil and gas)
Land management and land records
Land related system
Leasing and rental companies
Legal services
Leisure-recreation
Library management
Livestock auction
Mail order services
Management information system
Manufacturing and processing
Marketing research
Medical and health
Membership
Merchandising
Minor hockey
Natural gas utility billing
Office automation
Oil & gas process simulation
Optical storage
Payroll
Personnel
Personnel agencies
Pharmaceutical
Physician and or dental practice
Planning and decision
support software
Point of sale
Preventive maintenance
Printing services
Private clubs
Process control
Production accounting
Project management
Property management
Public access information system
Public database retrieval
Publishing
Purchase-order-invoice
Real estate and
property management
Retail
SCADA

Sales
Scheduling applications
School administration
Shipping
Soccer scheduling
Source for 1200 applications
Spreadsheet
Stock transfer
Student record system
Tax system
Telecommunication management
Text-word processing-conversion
Ticketing
Time & billing systems
Training
Transport and travel services
Truckers
Turnkey cellular mobile telephone systems
Utility services
Veterinary medicine
Videotex systems
Wholesale

■EDUCATIONAL SOFTWARE

APL language
Assembly language
Astronomy & science
Bus safety
CAD-CAM
CAI specific to applications developed at ACT
CNC machine control
College catalogue
Data processing
Driver training
Educational administration services
Electronics
Elementary reading
Estimating
General demos on Plato
Geology
Geophysics
Government
Health
Hotel housekeeping
Icon Computer products
Industry applications
Introductory programming concepts math education
Investment games
Lotus, Dbase, nutrition
Math
Menu profit analysis
Oil & Gas process simulation
Pedestrian safety
Petrophysics
Portfolio analysis
Probability and decision making
Product related
Special education services
Teacher aids-utilities

■GRAPHICS SOFTWARE

2-D graphics
3-D graphics
Business graphics
Interactive graphics
Plotting
Telidon computer graphics

■GENERAL HOME MICROCOMPUTER SOFTWARE

Accounting
Business
Communications
Database
Graphics
Home management
Spreadsheet
Word processing

■SCIENTIFIC AND ENGINEERING SOFTWARE

Aeronautic engineering-aerospace
Agriculture and human nutrition
Arctic engineering
Artificial intelligence (AI)
CAD-CAM
Cartography
Chemical engineering-refining
Civil engineering
Computer aided engineering
Custom software
Digitizing
Drilling and completions
Electronic and electrical engineering
Expert systems
Geodetic
Geographic information systems
Geological mapping and analysis
Geophysical processing
Geotechnical engineering
Global navigation
HVAC process control
Image processing
Land management

Log analysis
Mathematics
Mechanical engineering
Medical
Meteorology
Military-defence science
Mining and or geological engineering
Navigation
Numerical control
Oil & gas
Optics
Pattern recognition
Petrochemical
Pipeline design & control
Plotter interfacing
Process-design & control
Oil & gas production database
Remote sensing
Reserves & economic evaluation
Reservoir engineering & simulation
Robotics
Screen handling for micros
Seismic display mapping
Simulation and models
Specific electrical engineering software
Statistics
Structural mechanics
Surveying
Test results, reports and analysis

■OPERATING SYSTEM MODULE SOFTWARE

Communication
Data access
Data security
Database management
Debugging
Device support
Diagnostics
File management
Hardware performance evaluator
Information search and retrieve
Input-output
Loaders
Operating systems, compilers and languages
Program development
Program library management
Program security
Records management
Report generators
Screen painters
Software performance evaluator
Sort-merge
Utilities

■SYSTEM SOFTWARE

AEC
Applications-program generators
Assemblers systems
Cobol conversion software
Compilers systems
Conversion of HP Basic to other Basics
Disassemblers
Language translators system
Macro-assemblers software
Precompilers and or editors
Simulators interpreters
Spoolers

Software Products

BUSINESS APPLICATION SOFTWARE

■Accounting

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Ashley Data Management & Storage Ltd.
Aspen Computing Solutions Ltd.
Auto Administrator Western Inc.
Barry W. Ramer & Partners Ltd.
Bass Ticket Service Ltd.
Brand Computer Software Ltd.
Briskal Systems Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Candella Group
Canora Business Solutions Ltd.
Colman, Organ and Company
Comgen Software Services
Compudata Systems Consulting Inc.
Compudraft Services
Computer Technologies
Comsoft Inc.
Comtech Group International Ltd.
Corex Dataline Ltd.
D. Atkinson & Associates
DNA Computer Group Inc.
Edmonton Data Centre
Harrison Muirhead Systems Ltd.
Horner & Associates
Imperial Computing Ltd.
Infotel Consulting
JDA Software Services Ltd.
Lawmax Corporation
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MJ Data Consultants (Alberta) Ltd.
MacCosham Data Services Ltd.
MacKay Douglas Computing Ltd.
Management Information Group
Management Science America (Canada) Ltd.
Mounteer Data Share Ltd.
Peat, Marwick & Partners
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Price Waterhouse
Procom Computing Systems Inc.
Pronto Data Services
R.H.G. Holdings Ltd.
Randall Carlton & Associates Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Roscom Software Services Ltd.
Servnex Computer Systems Ltd.
Software Integration Services
Southern Computer Services Ltd.
Streamline Software Systems Ltd.
Systems West Consultants Ltd.
The Datatron Group
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Total Computers Ltd.
Unexsys Systems Inc.
University of Alberta Hospitals
Vertex System Resources Ltd.
Western Computing Ltd.
Westra & Associates Inc.
Yellowhead Datapro
259943 Alberta Limited

■Accounts payable and receivable

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Ashley Data Management & Storage Ltd.
Aspen Computing Solutions Ltd.
Auto Administrator Western Inc.
Barry W. Ramer & Partners Ltd.
Bass Ticket Service Ltd.
Brand Computer Software Ltd.
Briskal Systems Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Candella Group
Canora Business Solutions Ltd.
Colman, Organ and Company
Comgen Software Services
Compudata Systems Consulting Inc.
Compudraft Services
Computer Technologies
Comsoft Inc.
Comtech Group International Ltd.
Corex Dataline Ltd.
D. Atkinson & Associates

DNA Computer Group Inc.
Edmonton Data Centre
Harrison Muirhead Systems Ltd.
Horner & Associates
JDA Software Services Ltd.
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MJ Data Consultants (Alberta) Ltd.
MacCosham Data Services Ltd.
Mackereth Information Systems Ltd.
Management Information Group
Management Science America (Canada) Ltd.
Mounteer Data Share Ltd.
Peat, Marwick & Partners
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Price Waterhouse
Procom Computing Systems Inc.
Pronto Data Services
R.H.G. Holdings Ltd.
Randall Carlton & Associates Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Roscom Software Services Ltd.
Servnex Computer Systems Ltd.
Software Integration Services
Southern Computer Services Ltd.
Streamline Software Systems Ltd.
Systems West Consultants Ltd.
The Datatron Group
Thorne Riddell Associates
Total Computers Ltd.
Unexsys Systems Inc.
Vertex System Resources Ltd.
Western Computing Ltd.
Westra & Associates Inc.
Yellowhead Datapro
259943 Alberta Limited

■Advertising and mailing

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Alphatel Systems Ltd.
Ashley Data Management & Storage Ltd.
Axion Spatial Imaging Ltd.
Bass Ticket Service Ltd.
CMS Corporate Management Systems (Edmonton)
Computer Technologies
Comtech Group International Ltd.
Corex Dataline Ltd.
DNA Computer Group Inc.
Edmonton Data Centre
Harrison Muirhead Systems Ltd.
Link Hospitality Ltd.
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
Personal Computer Consulting Service
Streamline Software Systems Ltd.
Thorne Riddell Associates
Veritas Software Ltd.

■Agriculture and farm management

Advanced Data Systems
Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Calgary)
C.L. Sibbald Agri-Marketing Ltd.
I.P. Sharp Associates Limited
Kakari Systems Ltd.
MAI Canada Ltd.
Management Science America (Canada) Ltd.
Mounteer Data Share Ltd.
Northern Computer Logic Inc.
QRD Systems Consultants Ltd.
SRD Software Research & Development Corp.
Thorne Riddell Associates
Westra & Associates Inc.

■Architecture

Abcom Computer Supplies Ltd.
Compudraft Services
Edmonton Data Centre
MAI Canada Ltd.
Prime Computer of Canada Ltd.
Starbase Technologies Inc.
Sunearth Architectural Studio Ltd.
Veritas Software Ltd.

■Automotive

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Anador Limited
Barry W. Ramer & Partners Ltd.
Colman, Organ and Company
MAI Canada Ltd.
MacCosham Data Services Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Total Computers Ltd.

■Banking and finance

Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Compudata Systems Consulting Inc.

Computer Technologies
D. Atkinson & Associates
DNA Computer Group Inc.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
MAI Canada Ltd.
Management Science America (Canada) Ltd.
Thorn EMI Computer Software Ltd.

■Billing

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Ashley Data Management & Storage Ltd.
Auto Administrator Western Inc.
Barry W. Ramer & Partners Ltd.
Brand Computer Software Ltd.
Briskal Systems Ltd.
Burroughs Canada
Candella Group
Colman, Organ and Company
Comgen Software Services
Compudata Systems Consulting Inc.
Computer Technologies
Comtech Group International Ltd.
Corex Dataline Ltd.
DNA Computer Group Inc.
Edmonton Data Centre
Harrison Muirhead Systems Ltd.
JDA Software Services Ltd.
Lawmax Corporation
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MMS Managemrnt Services Ltd.
MacCosham Data Services Ltd.
MacKay Douglas Computing Ltd.
Martin & Company
Mounteer Data Share Ltd.
Peat, Marwick & Partners
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Pronto Data Services
QRD Systems Consultants Ltd.
R.H.G. Holdings Ltd.
Servnex Computer Systems Ltd.
Software Integration Services
Southern Computer Services Ltd.
Streamline Software Systems Ltd.
Systems West Consultants Ltd.
The Datatron Group
Thorne Riddell Associates
Total Computers Ltd.
Westra & Associates Inc.
Yellowhead Datapro

■Broadcasting and film

Advanced Data Systems

■Budget and forecast

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Ashley Data Management & Storage Ltd.
Aspen Computing Solutions Ltd.
Auto Administrator Western Inc.
Barry W. Ramer & Partners Ltd.
Bass Ticket Service Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Candella Group
Coles Nikiforuk Pennell Associates
Computer Technologies
Comshare Limited
Comtech Group International Ltd.
Coopers & Lybrand
Corex Dataline Ltd.
DNA Computer Group Inc.
H.R. Ruitenbeck Resource Consulting
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
J.A.V. Systems Development Ltd.
JDA Software Services Ltd.
Link Hospitality Ltd.
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MJ Data Consultants (Alberta) Ltd.
MacCosham Data Services Ltd.
Mackereth Information Systems Ltd.
Management Science America (Canada) Ltd.
McEwan and Associates Ltd.
Mounteer Data Share Ltd.
PSI Energy Software (Canada) Inc.
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Price Waterhouse
Prime Computer of Canada Ltd.
Pronto Data Services
Randall Carlton & Associates Ltd.
Rinax Systems Ltd.
Schema Systems Limited
Software Integration Services
Streamline Software Systems Ltd.
Sunearth Architectural Studio Ltd.
Systems West Consultants Ltd.
The SNC Group
Thorn EMI Computer Software Ltd.
Total Computers Ltd.
Unexsys Systems Inc.
Vertex System Resources Ltd.
Westra & Associates Inc.

■CAL computer aided learning

FitzPatrick Engineering Limited

■CNC

R.H.G. Holdings Ltd.

■CPM and PERT

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Burroughs Canada
Computer Technologies
I.P. Sharp Associates Limited
Imperial Computing Ltd.
R.H.G. Holdings Ltd.

■Cash management

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Aspen Computing Solutions Ltd.
Barry W. Ramer & Partners Ltd.
CMS Corporate Management Systems (Edmonton)
Computer Technologies
Comshare Limited
Comtech Group International Ltd.
Coopers & Lybrand
Corex Dataline Ltd.
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MJ Data Consultants (Alberta) Ltd.
Management Science America (Canada) Ltd.
Mounteer Data Share Ltd.
Peat, Marwick & Partners
Phil Whiting Computer Systems Ltd.
Prime Computer of Canada Ltd.
Pronto Data Services
R.H.G. Holdings Ltd.
Rinax Systems Ltd.
Streamline Software Systems Ltd.
The SNC Group
Thorn EMI Computer Software Ltd.
Unexsys Systems Inc.
Vertex System Resources Ltd.
Westra & Associates Inc.

■Chiropractic practices

MAI Canada Ltd.
MCT Microlink
MMS Managemrnt Services Ltd.
Mounteer Data Share Ltd.
QRD Systems Consultants Ltd.
The Datatron Group
259943 Alberta Limited

■Chronological data & time series

Year/ Scan

■Classified ad-taking for newspapers

Phil Whiting Computer Systems Ltd.

■Communications

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Barry W. Ramer & Partners Ltd.
Bass Ticket Service Ltd.
Brand Computer Software Ltd.
Computer Technologies
Corex Dataline Ltd.
DSG Technical Programming Associates
I.P. Sharp Associates Limited
Infotel Consulting
Keyword Office Technologies Ltd.
MAI Canada Ltd.
MCT Microlink
MDS Quantel Canada Inc.
Micro-Futures
Prime Computer of Canada Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Sunearth Architectural Studio Ltd.
Technical Services Group
Total Computers Ltd.
Unexsys Systems Inc.

■Construction

ACT Computer Services Ltd.
Accubio Systems Ltd.
Advanced Data Systems

Alberta Minicomputers Ltd. (Calgary)
Aspen Computing Solutions Ltd.
Axion Spatial Imaging Ltd.
CMS Corporate Management Systems (Edmonton)
Compudraft Services
Computek Ltd.
Computer Technologies
Comtech Group International Ltd.
DNA Computer Group Inc.
FitzPatrick Engineering Limited
Harrison Muirhead Systems Ltd.
Kakari Systems Ltd.
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Mounteer Data Share Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Servnex Computer Systems Ltd.
Starbase Technologies Inc.
Streamline Software Systems Ltd.
Sunearth Architectural Studio Ltd.
Thorne Riddell Associates
Unexsys Systems Inc.
Western Computing Ltd.

■Consulting

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Axion Spatial Imaging Ltd.
B & B Computer Applications Ltd.
Burroughs Canada
CERI Energy Research Ltd.
CMS Corporate Management Systems (Edmonton)
Coles Nikiforuk Pennell Associates
Computek Ltd.
Computer Technologies
Edmonton Data Centre
FitzPatrick Engineering Limited
G.A. Madden & Associates Ltd.
H.R. Ruitenbeck Resource Consulting
Hyprotech Ltd.
I.P. Sharp Associates Limited
Infotel Consulting
Inprotech Consulting Inc.
Instar Corporation
K. Stuart Associates Ltd.
Kevonic Controls Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MacCosham Data Services Ltd.
Management Information Group
Martin & Company
Mounteer Data Share Ltd.
PSC Consulting Ltd.
Peat, Marwick & Partners
Personal Computer Consulting Service
Resource Information Systems
SRD Software Research & Development Corp.
Starbase Technologies Inc.
Streamline Software Systems Ltd.
Sunearth Architectural Studio Ltd.
The SNC Group
Total Computers Ltd.
Westacott Software Limited
Westra & Associates Inc.

■Contractors

Alberta Minicomputers Ltd. (Calgary)
Aspen Computing Solutions Ltd.
CMS Corporate Management Systems (Edmonton)
Computer Technologies
Comtech Group International Ltd.
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
Hyprotech Ltd.
Kevonic Controls Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Mounteer Data Share Ltd.
Personal Computer Consulting Service
Pronto Data Services
R.H.G. Holdings Ltd.
Starbase Technologies Inc.
Streamline Software Systems Ltd.
Sunearth Architectural Studio Ltd.
Unexsys Systems Inc.

■Control and measurement

Technical Services Group

■Custom applications

Thorne Riddell Associates

■Custom software

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Accubio Systems Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Alphatel Systems Ltd.
Anador Limited
Arcturus Software
Aspen Computing Solutions Ltd.
Auto Administrator Western Inc.
Axion Spatial Imaging Ltd.
BRC Computer Services Ltd.
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
Briskal Systems Ltd.

Burroughs Canada
C.L. Sibbald Agri-Marketing Ltd.
CERI Energy Research Ltd.
CMS Corporate Management Systems (Edmonton)
Candella Group
Canora Business Solutions Ltd.
Caulfield Engineering
Coles Nikiforuk Pennell Associates
Colman, Organ and Company
Comgen Software Services
Computek Ltd.
Computrex Centres Ltd.
Computronix
Comshare Limited
Comtech Group International Ltd.
Corex Dataline Ltd.
D. Atkinson & Associates
DNA Computer Group Inc.
D & S Petroleum Consulting Group Ltd.
DSG Technical Programming Associates
Dyad Data Services Ltd.
Edmonton Data Centre
G.A. Madden & Associates Ltd.
Galo Systems Group Ltd.
Harrison Muirhead Systems Ltd.
Hyprotech Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
Instar Corporation
J.A.V. Systems Development Ltd.
JDA Software Services Ltd.
K. Stuart Associates Ltd.
Kakari Systems Ltd.
Keyword Office Technologies Ltd.
Kwok & Company Inc.
Laser Software Limited
Lawmax Corporation
Link Hospitality Ltd.
MAI Canada Ltd.
MCT Microlink
MDS Quantel Canada Inc.
MacCosham Data Services Ltd.
Mackereth Information Systems Ltd.
Martin & Company
McEwan and Associates Ltd.
Micro-Futures
Mounteer Data Share Ltd.
Novate Enterprises Inc.
Ocelot Computer Services Inc.
PSC Consulting Ltd.
PSI Energy Software (Canada) Inc.
Procom Computing Systems Inc.
Pronto Data Services
R.H.G. Holdings Ltd.
R.W. May & Associates Ltd.
Randall Carlton & Associates Ltd.
Rinax Systems Ltd.
Roscom Software Services Ltd.
Scientific Software-Intercomp
Software Integration Services
Southern Computer Services Ltd.
Star Technologies Ltd.
Streamline Software Systems Ltd.
Technical Services Group
The Datatron Group
The Decision Division
The SNC Group
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Total Computers Ltd.
Unexsys Systems Inc.
Vertex System Resources Ltd.
Visitech Graphic Resources Inc.
Westra & Associates Inc.
259943 Alberta Limited

■Database query system

Thorn EMI Computer Software Ltd.

■Daycare hospital maintenance

Beta-Cor Engineering Ltd.

■Dentistry

D. H. Casagranda Enterprises Ltd.
MAI Canada Ltd.
MMS Managemrnt Services Ltd.
QRD Systems Consultants Ltd.
The Datatron Group
Total Computers Ltd.

■Distribution

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Aspen Computing Solutions Ltd.
Briskal Systems Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Colman, Organ and Company
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
JDA Software Services Ltd.
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Mackereth Information Systems Ltd.
Management Science America (Canada) Ltd.
Pronto Data Services
Rinax Systems Ltd.
Streamline Software Systems Ltd.
The Datatron Group

Unexsys Systems Inc.
Western Computing Ltd.

■Econometric

CERI Energy Research Ltd.

■Education and industrial training

CBTS Computer Based Training Systems

■Electronics

B & B Computer Applications Ltd.
CMS Corporate Management Systems (Edmonton)
Caulfield Engineering
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
Rinax Systems Ltd.
Star Technologies Ltd.
Starbase Technologies Inc.
Streamline Software Systems Ltd.
Technical Services Group

■Energy

ACT Computer Services Ltd.
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
CMS Corporate Management Systems (Edmonton)
Coles Nikiforuk Pennell Associates
Coment Logan Group
Computer Technologies
Computrex Centres Ltd.
Coopers & Lybrand
DNA Computer Group Inc.
Dynamic Reservoir Systems Ltd.
G.A. Madden & Associates Ltd.
H.R. Ruitenbeck Resource Consulting
Hyprotech Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
K. Stuart Associates Ltd.
Laser Software Limited
MAI Canada Ltd.
MCT Microlink
Management Science America (Canada) Ltd.
PSI Energy Software (Canada) Inc.
Price Waterhouse
Resource Information Systems
Scientific Software-Intercomp
Southern Computer Services Ltd.
Star Technologies Ltd.
Statcom Ltd.
Sunearth Architectural Studio Ltd.
Technical Services Group
The SNC Group
Vertex System Resources Ltd.
Viatec Resource Systems Inc.
Visitech Graphic Resources Inc.

■Engineering (civil or geotechnical)

Geo-Slope Programming Ltd.
Kevonic Controls Ltd.
Martin & Company

■Expert systems (artificial intelligence)

Paper Chase Text Conversion Services

■File and mail list management

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Barry W. Ramer & Partners Ltd.
Bass Ticket Service Ltd.
Brand Computer Software Ltd.
CMS Corporate Management Systems (Edmonton)
Computer Technologies
Comtech Group International Ltd.
Corex Dataline Ltd.
DNA Computer Group Inc.
Edmonton Data Centre
G.A. Madden & Associates Ltd.
I.P. Sharp Associates Limited
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MacKay Douglas Computing Ltd.
Northern Computer Logic Inc.
Ocelot Computer Services Inc.
PSC Consulting Ltd.
Personal Computer Consulting Service
Prime Computer of Canada Ltd.
Procom Computing Systems Inc.
Pronto Data Services
R.H.G. Holdings Ltd.
Rinax Systems Ltd.
Software Integration Services
Streamline Software Systems Ltd.
The Datatron Group

Thorne Riddell Associates
Total Computers Ltd.
Westra & Associates Inc.
259943 Alberta Limited

■Financial analysis and modeling

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Alberta Minicomputers Ltd. (Calgary)
Ashley Data Management & Storage Ltd.
Auto Administrator Western Inc.
Barry W. Ramer & Partners Ltd.
Bass Ticket Service Ltd.
Burroughs Canada
CERI Energy Research Ltd.
CMS Corporate Management Systems (Edmonton)
Coles Nikiforuk Pennell Associates
Computer Technologies
Comshare Limited
Comtech Group International Ltd.
Coopers & Lybrand
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
MacCosham Data Services Ltd.
Management Science America (Canada) Ltd.
Mounteer Data Share Ltd.
PSI Energy Software (Canada) Inc.
Peat, Marwick & Partners
Personal Computer Consulting Service
Price Waterhouse
Prime Computer of Canada Ltd.
Pronto Data Services
R.H.G. Holdings Ltd.
Schema Systems Limited
The Decision Division
Thorn EMI Computer Software Ltd.
Total Computers Ltd.
Vertex System Resources Ltd.
Westra & Associates Inc.
Yellowhead Datapro

■Financial system

Reynolds & Reynolds
Rinax Systems Ltd.

■Food management

Novate Enterprises Inc.

■Forestry

CMS Corporate Management Systems (Edmonton)
MAI Canada Ltd.
Management Science America (Canada) Ltd.
Personal Computer Consulting Service

■Fully integrated control systems

Rinax Systems Ltd.

■General ledger

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Ashley Data Management & Storage Ltd.
Aspen Computing Solutions Ltd.
Auto Administrator Western Inc.
Barry W. Ramer & Partners Ltd.
Brand Computer Software Ltd.
Briskal Systems Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Canora Business Solutions Ltd.
Colman, Organ and Company
Comgen Software Services
Compudata Systems Consulting Inc.
Compudraft Services
Computer Technologies
Comsoft Inc.
Comtech Group International Ltd.
Corex Dataline Ltd.
D. Atkinson & Associates
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
Horner & Associates
JDA Software Services Ltd.
Lawmax Corporation
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MacCosham Data Services Ltd.
Mackereth Information Systems Ltd.
Management Information Group
Management Science America (Canada) Ltd.
Mounteer Data Share Ltd.
Peat, Marwick & Partners
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Price Waterhouse
Procom Computing Systems Inc.

Pronto Data Services
R.H.G. Holdings Ltd.
Randall Carlton & Associates Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Roscom Software Services Ltd.
Servnex Computer Systems Ltd.
Software Integration Services
Southern Computer Services Ltd.
Streamline Software Systems Ltd.
Systems West Consultants Ltd.
The Datatron Group
Thorne Riddell Associates
Total Computers Ltd.
Unexsys Systems Inc.
University of Alberta Hospitals
Vertex System Resources Ltd.
Western Computing Ltd.
Westra & Associates Inc.
259943 Alberta Limited

■Geological strip lot

Sittel Microsystems Ltd.

■Government services

Alphatel Systems Ltd.
Auto Administrator Western Inc.
Comshare Limited
FitzPatrick Engineering Limited
I.P. Sharp Associates Limited
Imperial Computing Ltd.
JDA Software Services Ltd.
MAI Canada Ltd.
MCT Microlink
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Randall Carlton & Associates Ltd.
The Datatron Group
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Visitech Graphic Resources Inc.

■Graphics

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Alphatel Systems Ltd.
Ashley Data Management & Storage Ltd.
Axion Spatial Imaging Ltd.
B & B Computer Applications Ltd.
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
Burroughs Canada
Calcomp Sanders (Canada) Inc.
Caulfield Engineering
Coles Nikiforuk Pennell Associates
Colman, Organ and Company
Compudraft Services
Computer Technologies
Computrex Centres Ltd.
Comshare Limited
D & S Petroleum Consulting Group Ltd.
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
Infotel Display Systems Canada Inc.
Instar Corporation
Kakari Systems Ltd.
MAI Canada Ltd.
Perkin-Elmer Canada Ltd.
Personal Computer Consulting Service
Price Waterhouse
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Reynolds & Reynolds
Scientific Software-Intercomp
Sittel Microsystems Ltd.
Software Integration Services
Star Technologies Ltd.
Starbase Technologies Inc.
Statcom Ltd.
Technical Services Group
Visitech Graphic Resources Inc.
Watson Computer Products Inc.
Westra & Associates Inc.

■Gravel

Management Information Group

■Hospitality

Alphatel Systems Ltd.
Barry W. Ramer & Partners Ltd.
CMS Corporate Management Systems (Edmonton)
Comsoft Inc.
I.P. Sharp Associates Limited
Infotel Display Systems Canada Inc.
Inter-Soft Systems Ltd.
Kwok & Company Inc.
Laser Image Consulting
Link Hospitality Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Synerlogic Inc.

■Hotel housekeeping

Link Hospitality Ltd.

■Import and export

CMS Corporate Management Systems (Edmonton)
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Thorn EMI Computer Software Ltd.

■Industrial automation

Willowglen Systems Ltd.

■Insurance

Advanced Data Systems
Banks-Isaak Systems Ltd.
Barry W. Ramer & Partners Ltd.
CMS Corporate Management Systems (Edmonton)
Compudata Systems Consulting Inc.
Comsoft Inc.
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
Imperial Computing Ltd.
In-Fa-Pak
Kwok & Company Inc.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MMS Managemrnt Services Ltd.
Management Science America (Canada) Ltd.
Reynolds & Reynolds
Roscom Software Services Ltd.
Thorne Riddell Associates
Total Computers Ltd.
Unexsys Systems Inc.
Western Computing Ltd.

■Integrated software

ACT Computer Services Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Aspen Computing Solutions Ltd.
Axion Spatial Imaging Ltd.
Barry W. Ramer & Partners Ltd.
Bass Ticket Service Ltd.
Briskal Systems Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Caulfield Engineering
Computer Technologies
Comshare Limited
Comsoft Inc.
Comtech Group International Ltd.
Corex Dataline Ltd.
Edmonton Data Centre
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
Kevonic Controls Ltd.
Keyword Office Technologies Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Micro-Futures
Mounteer Data Share Ltd.
PSI Energy Software (Canada) Inc.
Peat, Marwick & Partners
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Price Waterhouse
Prime Computer of Canada Ltd.
Procom Computing Systems Inc.
Pronto Data Services
R.H.G. Holdings Ltd.
Randall Carlton & Associates Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Scientific Software-Intercomp
Servnex Computer Systems Ltd.
Software Integration Services
Streamline Software Systems Ltd.
The Datatron Group
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Total Computers Ltd.
Vertex System Resources Ltd.
Visitech Graphic Resources Inc.

■Interactive videodisc courseware

Micro-Futures

■Inventory control

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)

Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Aspen Computing Solutions Ltd.
Barry W. Ramer & Partners Ltd.
Brand Computer Software Ltd.
Briskal Systems Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Candella Group
Colman, Organ and Company
Comgen Software Services
Compudata Systems Consulting Inc.
Computer Technologies
Comsoft Inc.
Comtech Group International Ltd.
DNA Computer Group Inc.
Fluor Canada Ltd.
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
JDA Software Services Ltd.
Kakari Systems Ltd.
Link Hospitality Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MJ Data Consultants (Alberta) Ltd.
MacCosham Data Services Ltd.
Mackereth Information Systems Ltd.
Management Information Group
Management Science America (Canada) Ltd.
Mounteer Data Share Ltd.
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Pronto Data Services
R.H.G. Holdings Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Scientific Software-Intercomp
Servnex Computer Systems Ltd.
Streamline Software Systems Ltd.
Systems West Consultants Ltd.
The Datatron Group
Thorn EMI Computer Software Ltd.
Total Computers Ltd.
Unexsys Systems Inc.
Western Computing Ltd.
Westra & Associates Inc.
259943 Alberta Limited

■Investment management

CMS Corporate Management Systems (Edmonton)
Computer Technologies
H.R. Ruitenbeck Resource Consulting
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Systems West Consultants Ltd.
The Decision Division
Thorn EMI Computer Software Ltd.
Westra & Associates Inc.

■Job costing

ACT Computer Services Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Aspen Computing Solutions Ltd.
Barry W. Ramer & Partners Ltd.
CMS Corporate Management Systems (Edmonton)
Compudraft Services
Comsoft Inc.
Comtech Group International Ltd.
Corex Dataline Ltd.
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
Kakari Systems Ltd.
Lawmax Corporation
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MacCosham Data Services Ltd.
Mackereth Information Systems Ltd.
Management Information Group
Management Science America (Canada) Ltd.
Mounteer Data Share Ltd.
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Pronto Data Services
Randall Carlton & Associates Ltd.
Servnex Computer Systems Ltd.
Software Integration Services
Streamline Software Systems Ltd.
Sunearth Architectural Studio Ltd.
Systems West Consultants Ltd.
The Datatron Group
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Unexsys Systems Inc.
University of Alberta Hospitals
Western Computing Ltd.
Westra & Associates Inc.

■Job scheduling

Reynolds & Reynolds

■Labor reporting

ACT Computer Services Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)

Aspen Computing Solutions Ltd.
Briskal Systems Ltd.
CMS Corporate Management Systems (Edmonton)
Computronix
Comshare Limited
Comtech Group International Ltd.
DNA Computer Group Inc.
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Phil Whiting Computer Systems Ltd.
Rinax Systems Ltd.
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
University of Alberta Hospitals

■Land management (oil and gas)

Laser Software Limited

■Land management and land records

MJ Data Consultants (Alberta) Ltd.
Procom Computing Systems Inc.
Schema Systems Limited

■Land related systems

Francysco Consulting Ltd.
Martin & Company

■Leasing and rental companies

Aspen Computing Solutions Ltd.
CMS Corporate Management Systems (Edmonton)
Computer Technologies
Comtech Group International Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MacCosham Data Services Ltd.
Personal Computer Consulting Service
Reynolds & Reynolds

■Legal services

Axion Spatial Imaging Ltd.
Barry W. Ramer & Partners Ltd.
Brand Computer Software Ltd.
CMS Corporate Management Systems (Edmonton)
Edmonton Data Centre
Lawmax Corporation
MAI Canada Ltd.
Streamline Software Systems Ltd.
The Datatron Group
Total Computers Ltd.
Western Computing Ltd.

■Leisure and recreation

Arcturus Software
CMS Corporate Management Systems (Edmonton)
D. Atkinson & Associates
DNA Computer Group Inc.
Edmonton Data Centre
MAI Canada Ltd.
MDS Quantel Canada Inc.
Phil Whiting Computer Systems Ltd.
R.H.G. Holdings Ltd.
Total Computers Ltd.

■Library management

ACT Computer Services Ltd.
CMS Corporate Management Systems (Edmonton)
Caulfield Engineering
DNA Computer Group Inc.
Dyad Data Services Ltd.
Kakari Systems Ltd.
MAI Canada Ltd.
Management Information Group
Nichols Advanced Technologies Inc.
Ocelot Computer Services Inc.
Personal Computer Consulting Service
Western Computing Ltd.

■Livestock auction

Southern Computer Services Ltd.

■Mail order services

ACT Computer Services Ltd.
Bass Ticket Service Ltd.
CMS Corporate Management Systems (Edmonton)
Comtech Group International Ltd.

M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MacKay Douglas Computing Ltd.
Personal Computer Consulting Service
R.H.G. Holdings Ltd.

■Management information system

ACT Computer Services Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Axion Spatial Imaging Ltd.
Bolton & Associates Consulting Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Coles Nikiforuk Pennell Associates
Computer Technologies
Computronix
Comshare Limited
Comtech Group International Ltd.
Corex Dataline Ltd.
D. H. Casagranda Enterprises Ltd.
Dyad Data Services Ltd.
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Infotel Display Systems Canada Inc.
JDA Software Services Ltd.
Lawmax Corporation
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Information Group
Management Science America (Canada) Ltd.
McEwan and Associates Ltd.
Ocelot Computer Services Inc.
Peat, Marwick & Partners
Perkin-Elmer Canada Ltd.
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Price Waterhouse
Prime Computer of Canada Ltd.
Procom Computing Systems Inc.
Pronto Data Services
R.H.G. Holdings Ltd.
Rinax Systems Ltd.
Schema Systems Limited
Scientific Software-Intercomp
Sunearth Architectural Studio Ltd.
Synerlogic Inc.
Systems Plus
The Datatron Group
Total Computers Ltd.
Vertex System Resources Ltd.
Westra & Associates Inc.

■Manufacturing and processing

ACT Computer Services Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Briskal Systems Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Computrex Centres Ltd.
Comtech Group International Ltd.
Harrison Muirhead Systems Ltd.
Hyprotech Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MacCosham Data Services Ltd.
Mackereth Information Systems Ltd.
Management Science America (Canada) Ltd.
Prime Computer of Canada Ltd.
Pronto Data Services
Starbase Technologies Inc.
Unexsys Systems Inc.
Western Computing Ltd.

■Marketing research

ACT Computer Services Ltd.
Axion Spatial Imaging Ltd.
CMS Corporate Management Systems (Edmonton)
Computer Technologies
I.P. Sharp Associates Limited
Link Hospitality Ltd.
MAI Canada Ltd.
Roscom Software Services Ltd.
Total Computers Ltd.

■Medical and health

ACT Computer Services Ltd.
Advanced Data Systems
B & B Computer Applications Ltd.
Banks-Isaak Systems Ltd.
Brand Computer Software Ltd.
Briskal Systems Ltd.
Burroughs Canada
Candella Group
Compudoc Systems Ltd.
MAI Canada Ltd.
MCT Microlink
MMS Managemrnt Services Ltd.
Management Science America (Canada) Ltd.
McEwan and Associates Ltd.
Procom Computing Systems Inc.
QRD Systems Consultants Ltd.
R.H.G. Holdings Ltd.

The Datatron Group
Thorne Riddell Associates
Total Computers Ltd.
University of Alberta Hospitals
259943 Alberta Limited

■Membership

Edmonton Data Centre
Mackereth Information Systems Ltd.

■Merchandising

Reynolds & Reynolds

■Minor hockey

Kakari Systems Ltd.

■Natural gas utility billing

Southern Computer Services Ltd.

■Office automation

ACT Computer Services Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Barry W. Ramer & Partners Ltd.
Brand Computer Software Ltd.
Burroughs Canada
Computrex Centres Ltd.
Comshare Limited
Comtech Group International Ltd.
Corex Dataline Ltd.
Harrison Muirhead Systems Ltd.
Infotel Consulting
Keyword Office Technologies Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Mounteer Data Share Ltd.
PSC Consulting Ltd.
Paper Chase Text Conversion Services
Personal Computer Consulting Service
Prime Computer of Canada Ltd.
Pronto Data Services
R.H.G. Holdings Ltd.
Rinax Systems Ltd.
Streamline Software Systems Ltd.
Total Computers Ltd.
Unexsys Systems Inc.
Western Computing Ltd.
Yellowhead Datapro

■Oil & gas process simulation

Compudraft Services
Hyprotech Ltd.
Systems Plus
Stuart Associates Ltd.
Procom Computing Systems Inc.
Barry W. Ramer & Partners Ltd.
Coles Nikiforuk Pennell Associates
Peat, Marwick & Partners

■Optical storage

Micro-Futures
Instar Corporation

■Payroll

ACT Computer Services Ltd.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Aspen Computing Solutions Ltd.
Barry W. Ramer & Partners Ltd.
Briskal Systems Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Canora Business Solutions Ltd.
Compudata Systems Consulting Inc.
Computer Technologies
Comsoft Inc.
Comtech Group International Ltd.
D. Atkinson & Associates
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
Imperial Computing Ltd.
JDA Software Services Ltd.
Kwok & Company Inc.
Lawmax Corporation
MAI Canada Ltd.
MDS Quantel Canada Inc.
MJ Data Consultants (Alberta) Ltd.
MacCosham Data Services Ltd.
MacKay Douglas Computing Ltd.
Mackereth Information Systems Ltd.
Management Information Group
Management Science America (Canada) Ltd.
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.

Pronto Data Services
R.H.G. Holdings Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Roscom Software Services Ltd.
Servnex Computer Systems Ltd.
Software Integration Services
Streamline Software Systems Ltd.
The Datatron Group
Thorne Riddell Associates
Unexsys Systems Inc.
University of Alberta Hospitals
Western Computing Ltd.
Westra & Associates Inc.
259943 Alberta Limited

■Personnel

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Aspen Computing Solutions Ltd.
CMS Corporate Management Systems (Edmonton)
Comshare Limited
Comtech Group International Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
JDA Software Services Ltd.
Laser Image Consulting
Laser Software Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Mackereth Information Systems Ltd.
Management Information Group
Management Science America (Canada) Ltd.
McEwan and Associates Ltd.
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Pronto Data Services
Streamline Software Systems Ltd.
Systems Plus
The Datatron Group
University of Alberta Hospitals

■Personnel agencies

Alberta Minicomputers Ltd. (Calgary)
CMS Corporate Management Systems (Edmonton)
Edmonton Data Centre
Laser Image Consulting
MAI Canada Ltd.
MacKay Douglas Computing Ltd.
Personal Computer Consulting Service
Systems Plus
Total Computers Ltd.

■Pharmaceutical

Advanced Data Systems
CMS Corporate Management Systems (Edmonton)
Comgen Software Services
MAI Canada Ltd.
MDS Quantel Canada Inc.
Total Computers Ltd.

■Physician and or dental practice

Brand Computer Software Ltd.
Briskal Systems Ltd.
CMS Corporate Management Systems (Edmonton)
MAI Canada Ltd.
MCT Microlink
MMS Managemrnt Services Ltd.
McEwan and Associates Ltd.
Procom Computing Systems Inc.
QRD Systems Consultants Ltd.
The Datatron Group
259943 Alberta Limited

■Planning and decision support software

Coopers & Lybrand

■Point of sale

Micro-Futures
Rinax Systems Ltd.

■Preventive maintenance

Beta-Cor Engineering Ltd.
Computronix

■Printing services

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Bass Ticket Service Ltd.
CMS Corporate Management Systems (Edmonton)
Corex Dataline Ltd.
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MJ Data Consultants (Alberta) Ltd.

Personal Computer Consulting Service
Walford & Foy
Watson Computer Products Inc.
Westra & Associates Inc.
259943 Alberta Limited

■Private clubs

D. Atkinson & Associates

■Process control

B & B Computer Applications Ltd.
Willowglen Systems Ltd.

■Production accounting

J.A.V. Systems Development Ltd.

■Project management

ACT Computer Services Ltd.
Accubio Systems Ltd.
Alberta Minicomputers Ltd. (Calgary)
Barry W. Ramer & Partners Ltd.
Briskal Systems Ltd.
CMS Corporate Management Systems (Edmonton)
Colman, Organ and Company
Computer Technologies
Computrex Centres Ltd.
Comtech Group International Ltd.
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Inprotech Consulting Inc.
Kakari Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Pronto Data Services
R.H.G. Holdings Ltd.
Streamline Software Systems Ltd.
Technical Services Group
The SNC Group
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates

■Property management

Inter-Soft Systems Ltd.

■Public access information system

Infotel Display Systems Canada Inc.

■Public database retrieval

I.P. Sharp Associates Limited

■Publishing

Axion Spatial Imaging Ltd.
Briskal Systems Ltd.
CMS Corporate Management Systems (Edmonton)
Corex Dataline Ltd.
Edmonton Data Centre
Harrison Muirhead Systems Ltd.
MAI Canada Ltd.
PSC Consulting Ltd.
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Total Computers Ltd.
Walford & Foy
Watson Computer Products Inc.

■Purchase-order-invoice

ACT Computer Services Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Aspen Computing Solutions Ltd.
Barry W. Ramer & Partners Ltd.
Bass Ticket Service Ltd.
Briskal Systems Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Candella Group
Canora Business Solutions Ltd.
Colman, Organ and Company
Compudata Systems Consulting Inc.
Comsoft Inc.
Comtech Group International Ltd.
Corex Dataline Ltd.
DNA Computer Group Inc.
Dyad Data Services Ltd.
Harrison Muirhead Systems Ltd.
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MacCosham Data Services Ltd.
Mackereth Information Systems Ltd.
Management Information Group

Management Science America (Canada) Ltd.
Mounteer Data Share Ltd.
Personal Computer Consulting Service
Pronto Data Services
R.H.G. Holdings Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Software Integration Services
Streamline Software Systems Ltd.
The Datatron Group
Unexsys Systems Inc.
University of Alberta Hospitals
Westra & Associates Inc.
259943 Alberta Limited

■Real estate and property management

Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Barry W. Ramer & Partners Ltd.
CMS Corporate Management Systems (Edmonton)
Canora Business Solutions Ltd.
Comsoft Inc.
Comtech Group International Ltd.
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
Infotel Display Systems Canada Inc.
MAI Canada Ltd.
Management Information Group
Mounteer Data Share Ltd.
Personal Computer Consulting Service
R.H.G. Holdings Ltd.
Roscom Software Services Ltd.
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Total Computers Ltd.

■Retail

Advanced Data Systems
Barry W. Ramer & Partners Ltd.
CMS Corporate Management Systems (Edmonton)
Colman, Organ and Company
Computer Technologies
Harrison Muirhead Systems Ltd.
Infotel Display Systems Canada Inc.
JDA Software Services Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
MacCosham Data Services Ltd.
Personal Computer Consulting Service
Schema Systems Limited
Thorne Riddell Associates
Total Computers Ltd.
Unexsys Systems Inc.
Western Computing Ltd.
Westra & Associates Inc.

■SCADA

Willowglen Systems Ltd.

■Sales

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Anador Limited
Barry W. Ramer & Partners Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Computer Technologies
Comtech Group International Ltd.
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
Infotel Display Systems Canada Inc.
M.A.P. Data Processing Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Personal Computer Consulting Service
Phil Whiting Computer Systems Ltd.
Pronto Data Services
Reynolds & Reynolds
Rinax Systems Ltd.
Schema Systems Limited
Systems Ltd.
The Datatron Group
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Total Computers Ltd.

■Scheduling applications

Kakari Systems Ltd.

■School administration

Total Computers Ltd.

■Shipping

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
CMS Corporate Management Systems (Edmonton)
Computer Technologies
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
JDA Software Services Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Personal Computer Consulting Service

Rinax Systems Ltd.
Schema Systems Limited
Total Computers Ltd.

■Soccer scheduling

Kakari Systems Ltd.

■Source for 1200 applications

Prime Computer of Canada Ltd.

■Spreadsheet

ACT Computer Services Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Ashley Data Management & Storage Ltd.
Barry W. Ramer & Partners Ltd.
Burroughs Canada
Candella Group
Computer Technologies
Comshare Limited
Comtech Group International Ltd.
H.R. Ruitenbeck Resource Consulting
Imperial Computing Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Northern Computer Logic Inc.
PSC Consulting Ltd.
Perkin-Elmer Canada Ltd.
Personal Computer Consulting Service
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Schema Systems Limited
Software Integration Services
The SNC Group
Thorn EMI Computer Software Ltd.
Total Computers Ltd.
Unexsys Systems Inc.
Westra & Associates Inc.

■Stock transfer

Alberta Minicomputers Ltd. (Calgary)
Anador Limited
CMS Corporate Management Systems (Edmonton)
Comtech Group International Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Rinax Systems Ltd.
Total Computers Ltd.

■Student record system

Management Information Group

■Tax system

Auto Administrator Western Inc.
JDA Software Services Ltd.
Management Information Group

■Telecommunication management

Infotel Consulting

■Text-word processing-conversion

ACT Computer Services Ltd.
AES Data Inc.
Abcom Computer Supplies Ltd.
Advanced Data Systems
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Ashley Data Management & Storage Ltd.
Axion Spatial Imaging Ltd.
Barry W. Ramer & Partners Ltd.
Brand Computer Software Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Computer Technologies
Comtech Group International Ltd.
Corex Dataline Ltd.
Harrison Muirhead Systems Ltd.
Keyword Office Technologies Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Paper Chase Text Conversion Services
Perkin-Elmer Canada Ltd.
Personal Computer Consulting Service
Prime Computer of Canada Ltd.
Reynolds & Reynolds
Schema Systems Limited
Servnex Computer Systems Ltd.
Thorn EMI Computer Software Ltd.
Unexsys Systems Inc.
Walford & Foy
Westra & Associates Inc.

■Ticketing

Bass Ticket Service Ltd.

■Time & billing systems

Systems West Consultants Ltd.

■Training

Micro-Futures

■Transport and travel services

Abcom Computer Supplies Ltd.
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Banks-Isaak Systems Ltd.
CMS Corporate Management Systems (Edmonton)
Colman, Organ and Company
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Western Computing Ltd.
Yellowhead Datapro
259943 Alberta Limited

■Truckers

M.A.P. Data Processing Systems Ltd.

■Turnkey cellular mobile telephone systems

Novatel Communications Ltd.

■Utility services

ACT Computer Services Ltd.
Auto Administrator Western Inc.
CMS Corporate Management Systems (Edmonton)
Computrex Centres Ltd.
Infotel Consulting
JDA Software Services Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Information Group
Management Science America (Canada) Ltd.
Price Waterhouse
Prime Computer of Canada Ltd.
Southern Computer Services Ltd.
The Datatron Group
Thorn EMI Computer Software Ltd.

■Veterinary medicine

Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
MAI Canada Ltd.
Total Computers Ltd.

■Videotex systems

Micro-Futures

■Wholesale

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Anador Limited
Briskal Systems Ltd.
CMS Corporate Management Systems (Edmonton)
DNA Computer Group Inc.
Harrison Muirhead Systems Ltd.
JDA Software Services Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
R.H.G. Holdings Ltd.
Rinax Systems Ltd.
Unexsys Systems Inc.

EDUCATIONAL SOFTWARE

■APL language

I.P. Sharp Associates Limited

■Assembly language

Custom Micro Systems Ltd.

■Astronomy & science

H.R. Ruitenbeck Resource Consulting
Micro-Futures

■Bus safety

Alphatel Systems Ltd.

■CAD-CAM

Technical Services Group

■CAI specific to applications developed at ACT

ACT Computer Services Ltd.

■CNC machine control

R.H.G. Holdings Ltd.

■College catalogue

CBTS Computer Based Training Systems

■Data processing

Synerlogic Inc.

■Driver training

Alphatel Systems Ltd.

■Educational administration services

Alphatel Computer Products
W. Ramer & Partners Ltd.
Burroughs Canada
Nichols Advanced Technologies Inc.
The Datatron Group
Total Computers Ltd.

■Electronics

CBTS Computer Based Training Systems

■Elementary reading

Custom Micro Systems Ltd.

■Estimating

Accubio Systems Ltd.

■General demos on Plato

PSC Consulting Ltd.

■Geology

Bolton & Associates Consulting Ltd.

■Geophysics

Bolton & Associates Consulting Ltd.

■Government

Micro-Futures

■Health

CBTS Computer Based Training Systems

■Hotel housekeeping

Link Hospitality Ltd.

■Icon computer products

Burroughs Canada

■Industry applications

Micro-Futures

■Introductory programming concepts math education

Alphatel Computer Products

■Investment games

The Decision Division

■Lotus, Dbase, Nutrition

Westra & Associates Inc.

■Math

CBTS Computer Based Training Systems

■Menu profit analysis

Link Hospitality Ltd.

■Oil & gas process simulation

Hyprotech Ltd.

■Pedestrian safety

Alphatel Systems Ltd.

■Petrophysics

Bolton & Associates Consulting Ltd.

■Portfolio analysis

The Decision Division

■Probability and decision making

FitzPatrick Engineering Limited

■Product related

Comshare Limited

■Special Education Services

Barry W. Ramer & Partners Ltd.
CBTS Computer Based Training Systems
FitzPatrick Engineering Limited
Technical Services Group
Westra & Associates Inc.

■Teacher aids-utilities

Alphatel Computer Products
Alphatel Systems Ltd.
Burroughs Canada
CBTS Computer Based Training Systems
Custom Micro Systems Ltd.
FitzPatrick Engineering Limited
Mounteer Data Share Ltd.

GRAPHICS SOFTWARE

■2-D Graphics

Synerlogic Inc.
Visitech Graphic Resources Inc.
Instar Corporation
I.P. Sharp Associates Limited
ACT Computer Services Ltd.
Ashley Data Management & Storage Ltd.
Axion Spatial Imaging Ltd.
B & B Computer Applications Ltd.
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
Burroughs Canada
CGE Calma
Calcomp Sanders (Canada) Inc.
Canadian Institute of Formation Evaluation
Caulfield Engineering
Coles Nikiforuk Pennell Associates
Compudraft Services
Computer Technologies
D & S Petroleum Consulting Group Ltd.
F.G. Bercha & Associates (Alberta) Ltd.
H.R. Ruitenbeck Resource Consulting
I.P. Sharp Associates Limited
Martin & Company
Paper Chase Text Conversion Services
Perkin-Elmer Canada Ltd.
Petresim Engineering Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
RE/SPEC Ltd.
Riley's Database International Ltd.
Scientific Software-Intercomp
Simtech Consulting Services Ltd.
Software Integration Services
Star Technologies Ltd.
Starbase Technologies Inc.
Technical Services Group
Teknica Resource Development Ltd.
Thorn EMI Computer Software Ltd.
Visitech Graphic Resources Inc.
Watson Computer Products Inc.
Willowglen Systems Ltd.

■3-D Graphics

ACT Computer Services Ltd.
Axion Spatial Imaging Ltd.
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
CGE Calma
Calcomp Sanders (Canada) Inc.
Compudraft Services
Computer Technologies
Computrex Centres Ltd.
Comtech Group International Ltd.
D & S Petroleum Consulting Group Ltd.
Kakari Systems Ltd.
Paper Chase Text Conversion Services
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Scientific Software-Intercomp
Star Technologies Ltd.
Starbase Technologies Inc.
Technical Services Group
Teknica Resource Development Ltd.
Visitech Graphic Resources Inc.
Watson Computer Products Inc.

■Business graphics

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Calgary)
Alberta Minicomputers Ltd. (Edmonton)
Ashley Data Management & Storage Ltd.
Axion Spatial Imaging Ltd.
Barry W. Ramer & Partners Ltd.
Burroughs Canada
Coles Nikiforuk Pennell Associates
Colman, Organ and Company
Computer Technologies
Computrex Centres Ltd.
Computronix
Comshare Limited
I.P. Sharp Associates Limited
Imperial Computing Ltd.
MAI Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Resource Information Systems
Software Integration Services
Streamline Software Systems Ltd.
Thorn EMI Computer Software Ltd.
Unexsys Systems Inc.
Watson Computer Products Inc.
Westra & Associates Inc.
Year/Scan

■Interactive graphics

ACT Computer Services Ltd.
Alphatel Systems Ltd.
Axion Spatial Imaging Ltd.
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
CGE Calma

Calcomp Sanders (Canada) Inc.
Coles Nikiforuk Pennell Associates
Coment Logan Group
Compudraft Services
Computer Technologies
Computrex Centres Ltd.
Comshare Limited
D & S Petroleum Consulting Group Ltd.
Dyad Data Services Ltd.
Dynamic Reservoir Systems Ltd.
G.A. Madden & Associates Ltd.
I.P. Sharp Associates Limited
Infotel Display Systems Canada Inc.
Inprotech Consulting Inc.
Instar Corporation
Martin & Company
PSI Energy Software (Canada) Inc.
Paper Chase Text Conversion Services
Perkin-Elmer Canada Ltd.
Petresim Engineering Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
RE/ SPEC Ltd.
Riley's Database International Ltd.
Scientific Software-Intercomp
Star Technologies Ltd.
Starbase Technologies Inc.
Teknica Resource Development Ltd.
Visitech Graphic Resources Inc.
Watson Computer Products Inc.
Willowglen Systems Ltd.

■Plotting

ACT Computer Services Ltd.
Axion Spatial Imaging Ltd.
B & B Computer Applications Ltd.
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
CGE Calma
Calcomp Sanders (Canada) Inc.
Canadian Institute of Formation Evaluation
Caulfield Engineering
Coment Logan Group
Compudraft Services
Computer Technologies
Comtech Group International Ltd.
D & S Petroleum Consulting Group Ltd.
Dyad Data Services Ltd.
Dynamic Reservoir Systems Ltd.
F.G. Bercha & Associates (Alberta) Ltd.
Imperial Computing Ltd.
Inprotech Consulting Inc.
K. Stuart Associates Ltd.
Kakari Systems Ltd.
MCT Microlink
Magna IV Engineering Ltd.
Martin & Company
PSI Energy Software (Canada) Inc.
Perkin-Elmer Canada Ltd.
Petresim Engineering Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
RE/ SPEC Ltd.
Resource Information Systems
Riley's Database International Ltd.
Scientific Software-Intercomp
Sittel Microsystems Ltd.
Star Technologies Ltd.
Starbase Technologies Inc.
Statcom Ltd.
Technical Services Group
Teknica Resource Development Ltd.
Telephone Exploration Ltd.
Thorn EMI Computer Software Ltd.
Unexsys Systems Inc.
Watson Computer Products Inc.
Westra & Associates Inc.
Willowglen Systems Ltd.
Year/ Scan

■Telidon computer graphics

Alphatel Systems Ltd.

GENERAL HOME MICROCOMPUTER SOFTWARE

■Accounting

Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Edmonton)
Ashley Data Management & Storage Ltd.
Barry W. Ramer & Partners Ltd.
Computer Technologies
Comsoft Inc.
Comtech Group International Ltd.
Horner & Associates
Imperial Computing Ltd.
Mounteer Data Share Ltd.
Personal Computer Consulting Service
Pronto Data Services
Software Integration Services
Streamline Software Systems Ltd.
Systems West Consultants Ltd.
Thorne Riddell Associates
Westra & Associates Inc.

■Business

Alberta Minicomputers Ltd. (Edmonton)
Barry W. Ramer & Partners Ltd.
Computer Technologies
Imperial Computing Ltd.
Mounteer Data Share Ltd.
Personal Computer Consulting Service
Pronto Data Services
Systems West Consultants Ltd.
Systems Plus
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Westra & Associates Inc.

■Communications

Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Edmonton)
Ashley Data Management & Storage Ltd.
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
Computer Technologies
G.A. Madden & Associates Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
Thorn EMI Computer Software Ltd.

■Database

Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Edmonton)
Ashley Data Management & Storage Ltd.
Barry W. Ramer & Partners Ltd.
Computer Technologies
Comtech Group International Ltd.
Francysco Consulting Ltd.
G.A. Madden & Associates Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
Novate Enterprises Inc.
Pansophic Systems of Canada Ltd.
Personal Computer Consulting Service
Software Integration Services
Systems Plus
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Westra & Associates Inc.

■Graphics

Alberta Minicomputers Ltd. (Edmonton)
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
Coles Nikiforuk Pennell Associates
Computer Technologies
Imperial Computing Ltd.
Paper Chase Text Conversion Services
Personal Computer Consulting Service
Resource Information Systems
Thorn EMI Computer Software Ltd.
Westra & Associates Inc.

■Home management

Arcturus Software
Year/ Scan

■Spreadsheet

Alberta Minicomputers Ltd. (Edmonton)
Ashley Data Management & Storage Ltd.
Barry W. Ramer & Partners Ltd.
Comtech Group International Ltd.

Francysco Consulting Ltd.
Imperial Computing Ltd.
PSC Consulting Ltd.
Personal Computer Consulting Service
Software Integration Services
Streamline Software Systems Ltd.
Thorn EMI Computer Software Ltd.
Thorne Riddell Associates
Westra & Associates Inc.
Year/ Scan

■Word processing

Ashley Data Management & Storage Ltd.
Barry W. Ramer & Partners Ltd.
Comtech Group International Ltd.
Imperial Computing Ltd.
PSC Consulting Ltd.
Personal Computer Consulting Service
Software Integration Services
Streamline Software Systems Ltd.
Thorne Riddell Associates
Westra & Associates Inc.

SCIENTIFIC AND ENGINEERING SOFTWARE

■Aeronautic engineering-aerospace

Myrias Research Corporation
Prime Computer of Canada Ltd.
Star Technologies Ltd.
Technical Services Group

■Agriculture and human nutrition

Agri-Trends Research Inc.
Westra & Associates Inc.

■Arctic engineering

F.G. Bercha & Associates (Alberta) Ltd.

■Artificial intelligence (AI)

Computer Technologies
D & S Petroleum Consulting Group Ltd.
FitzPatrick Engineering Limited
I.P. Sharp Associates Limited
Management Science America (Canada) Ltd.
Prime Computer of Canada Ltd.
Star Technologies Ltd.
Technical Services Group
Teknica Resource Development Ltd.

■CAD-CAM

Barry W. Ramer & Partners Ltd.
CGE Calma
Calcomp Sanders (Canada) Inc.
Coles Nikiforuk Pennell Associates
Compudraft Services
Computrex Centres Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
Magna IV Engineering Ltd.
Martin & Company
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Software Integration Services
Star Technologies Ltd.
Starbase Technologies Inc.
Technical Services Group
The McElhanney Group Ltd.
Total Computers Ltd.
Visitech Graphic Resources Inc.
Watson Computer Products Inc.

■Cartography

Axion Spatial Imaging Ltd.
Bolton & Associates Consulting Ltd.
Coles Nikiforuk Pennell Associates
Computek Ltd.
PSI Energy Software (Canada) Inc.
Prime Computer of Canada Ltd.
Riley's Database International Ltd.
Rinax Systems Ltd.
Star Technologies Ltd.
Starbase Technologies Inc.
The McElhanney Group Ltd.
Total Computers Ltd.
Visitech Graphic Resources Inc.

■Chemical engineering-refining

CGE Calma
D.B. Robinson & Associates Ltd.
Hyprotech Ltd.
Kevonic Controls Ltd.
Neotechnology Consultants Ltd.
Prime Computer of Canada Ltd.
Starbase Technologies Inc.
Total Computers Ltd.
Willowglen Systems Ltd.

■Civil engineering

CGE Calma
Compudraft Services
F.G. Bercha & Associates (Alberta) Ltd.
Geo-Slope Programming Ltd.
Martin & Company
Myrias Research Corporation
Prime Computer of Canada Ltd.
RE/SPEC Ltd.
Starbase Technologies Inc.
Westacott Software Limited

■Computer aided engineering

FitzPatrick Engineering Limited

■Custom software

R.W. May & Associates Ltd.
Star Technologies Ltd.

■Digitizing

Bolton & Associates Consulting Ltd.

■Drilling and completions

BRC Computer Services Ltd.
MCT Microlink
Montech Data Systems Ltd.
Neotechnology Consultants Ltd.
PSI Energy Software (Canada) Inc.
Peat, Marwick & Partners
Prime Computer of Canada Ltd.
Simtech Consulting Services Ltd.
Total Computers Ltd.

■Electronic and electrical engineering

CGE Calma
Caulfield Engineering
Magna IV Engineering Ltd.
Prime Computer of Canada Ltd.
Star Technologies Ltd.
Starbase Technologies Inc.
Technical Services Group
Total Computers Ltd.
Willowglen Systems Ltd.

■Expert systems

Computer Technologies
D & S Petroleum Consulting Group Ltd.
FitzPatrick Engineering Limited
Management Science America (Canada) Ltd.
Technical Services Group
Teknica Resource Development Ltd.
Total Computers Ltd.
Westra & Associates Inc.

■Geodetic

The McElhanney Group Ltd.

■Geographic information systems

ACT Computer Services Ltd.
Axion Spatial Imaging Ltd.
Bolton & Associates Consulting Ltd.
D & S Petroleum Consulting Group Ltd.
F.G. Bercha & Associates (Alberta) Ltd.
Martin & Company
Montech Data Systems Ltd.
PSI Energy Software (Canada) Inc.
Prime Computer of Canada Ltd.
Riley's Database International Ltd.
Rinax Systems Ltd.
Scientific Software-Intercomp
Star Technologies Ltd.
Starbase Technologies Inc.
The McElhanney Group Ltd.
Visitech Graphic Resources Inc.

■Geological mapping and analysis

Axion Spatial Imaging Ltd.
B & B Computer Applications Ltd.
Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
CGE Calma
Canadian Institute of Formation Evaluation
Caulfield Engineering
Coles Nikiforuk Pennell Associates
Compudraft Services
Computronix
D & S Petroleum Consulting Group Ltd.
F.G. Bercha & Associates (Alberta) Ltd.
Martin & Company
Montech Data Systems Ltd.
PSI Energy Software (Canada) Inc.
Petresim Engineering Ltd.
Prime Computer of Canada Ltd.
R.W. May & Associates Ltd.
Riley's Database International Ltd.
Rinax Systems Ltd.
Scientific Software-Intercomp
Sittel Microsystems Ltd.
Star Technologies Ltd.
Starbase Technologies Inc.
Technical Services Group
Teknica Resource Development Ltd.
Visitech Graphic Resources Inc.

■Geophysical processing

Axion Spatial Imaging Ltd.
Bolton & Associates Consulting Ltd.
Caulfield Engineering
Dyad Data Services Ltd.
Geophysical Microcomputer Applications
Imperial Computing Ltd.
Myrias Research Corporation
Prime Computer of Canada Ltd.
Star Technologies Ltd.
Statcom Ltd.
Teknica Resource Development Ltd.
Telephone Exploration Ltd.
The McElhanney Group Ltd.
Veritas Software Ltd.

■Geotechnical engineering

Geo-Slope Programming Ltd.

■Global navigation

Technical Services Group

■HVAC process control

G.A. Madden & Associates Ltd.

■Image processing

Axion Spatial Imaging Ltd.
Calcomp Sanders (Canada) Inc.
Caulfield Engineering
Coles Nikiforuk Pennell Associates
Computrex Centres Ltd.
F.G. Bercha & Associates (Alberta) Ltd.
Instar Corporation
Myrias Research Corporation
Prime Computer of Canada Ltd.
Star Technologies Ltd.
Teknica Resource Development Ltd.
Viatec Resource Systems Inc.

■Land management

Barry W. Ramer & Partners Ltd.
C.L. Sibbald Agri-Marketing Ltd.
CMS Corporate Management Systems (Edmonton)
Coles Nikiforuk Pennell Associates
Computer Technologies
D & S Petroleum Consulting Group Ltd.
Martin & Company
Peat, Marwick & Partners
Prime Computer of Canada Ltd.
Procom Computing Systems Inc.
Starbase Technologies Inc.
Vertex System Resources Ltd.
Visitech Graphic Resources Inc.

■Log analysis

Barry W. Ramer & Partners Ltd.
Bolton & Associates Consulting Ltd.
Coles Nikiforuk Pennell Associates
Coment Logan Group
Computrex Centres Ltd.
D & S Petroleum Consulting Group Ltd.
Imperial Computing Ltd.
Petresim Engineering Ltd.
Prime Computer of Canada Ltd.
Riley's Database International Ltd.
Scientific Software-Intercomp
Star Technologies Ltd.
Teknica Resource Development Ltd.

■Mathematics

B & B Computer Applications Ltd.
Bolton & Associates Consulting Ltd.
F.G. Bercha & Associates (Alberta) Ltd.
FitzPatrick Engineering Limited
H.R. Ruitenbeck Resource Consulting
I.P. Sharp Associates Limited
Kakari Systems Ltd.
Myrias Research Corporation
Prime Computer of Canada Ltd.
Star Technologies Ltd.

■Mechanical engineering

CGE Calma
Compudraft Services
FitzPatrick Engineering Limited
K. Stuart Associates Ltd.
Kevonic Controls Ltd.
Myrias Research Corporation
Prime Computer of Canada Ltd.
Starbase Technologies Inc.
Technical Services Group

■Medical

ACT Computer Services Ltd.
Star Technologies Ltd.
Total Computers Ltd.

■Meteorology

Myrias Research Corporation
Prime Computer of Canada Ltd.
Star Technologies Ltd.

■Military-defence science

Datek Industries Limited
I.P. Sharp Associates Limited
Prime Computer of Canada Ltd.
Star Technologies Ltd.

■Mining and or geological engineering

Axion Spatial Imaging Ltd.
Bolton & Associates Consulting Ltd.
Geo-Slope Programming Ltd.
Montech Data Systems Ltd.
PSI Energy Software (Canada) Inc.
Prime Computer of Canada Ltd.
R.W. May & Associates Ltd.
RE/SPEC Ltd.
Star Technologies Ltd.
Starbase Technologies Inc.

■Navigation

The McElhanney Group Ltd.

■Numerical control

CGE Calma
D & S Petroleum Consulting Group Ltd.
Datek Industries Limited
FitzPatrick Engineering Limited
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Technical Services Group

■Oil & gas

Axion Spatial Imaging Ltd.
B & B Computer Applications Ltd.
BRC Computer Services Ltd.
Barry W. Ramer & Partners Ltd.
CGE Calma
CMS Corporate Management Systems (Edmonton)
Canadian Institute of Formation Evaluation
Coles Nikiforuk Pennell Associates
Compudraft Services
Computer Technologies
Datek Industries Limited
G.A. Madden & Associates Ltd.
H.R. Ruitenbeck Resource Consulting
Hyprotech Ltd.
Imperial Computing Ltd.
K. Stuart Associates Ltd.
Kevonic Controls Ltd.
MCT Microlink
Montech Data Systems Ltd.
Neotechnology Consultants Ltd.
PSI Energy Software (Canada) Inc.
Peat, Marwick & Partners
Petresim Engineering Ltd.
Price Waterhouse
Prime Computer of Canada Ltd.
Procom Computing Systems Inc.
R.W. May & Associates Ltd.
Resource Information Systems
Riley's Database International Ltd.
Scientific Software-Intercomp
Simtech Consulting Services Ltd.
Star Technologies Ltd.
Starbase Technologies Inc.
Systems Plus
Teknica Resource Development Ltd.
The McElhanney Group Ltd.
Thirsk Computer Consulting
Thorn EMI Computer Software Ltd.
Total Computers Ltd.
Vertex System Resources Ltd.
Viatec Resource Systems Inc.
Visitech Graphic Resources Inc.
Willowglen Systems Ltd.

■Optics

Prime Computer of Canada Ltd.

■Pattern recognition

Axion Spatial Imaging Ltd.
Bolton & Associates Consulting Ltd.
C.L. Sibbald Agri-Marketing Ltd.
Coles Nikiforuk Pennell Associates
Kakari Systems Ltd.
Prime Computer of Canada Ltd.
Star Technologies Ltd.
Technical Services Group
Teknica Resource Development Ltd.
Viatec Resource Systems Inc.
Watson Computer Products Inc.

■Petrochemical

Barry W. Ramer & Partners Ltd.
CGE Calma
Computer Technologies
Computronix
D.B. Robinson & Associates Ltd.
G. Michaels Consulting
G.A. Madden & Associates Ltd.
H.R. Ruitenbeck Resource Consulting
Hyprotech Ltd.
Kevonic Controls Ltd.
Prime Computer of Canada Ltd.
Procom Computing Systems Inc.
Starbase Technologies Inc.
The SNC Group
Thorn EMI Computer Software Ltd.

■Pipeline design & control

Barry W. Ramer & Partners Ltd.
CGE Calma
Datek Industries Limited
G. Michaels Consulting
G.A. Madden & Associates Ltd.
Hyprotech Ltd.
K. Stuart Associates Ltd.
Kevonic Controls Ltd.
Neotechnology Consultants Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Scientific Software-Intercomp
Star Technologies Ltd.
Starbase Technologies Inc.
The SNC Group
Willowglen Systems Ltd.

■Plotter interfacing

Calcomp Sanders (Canada) Inc.

■Process-design & control

B & B Computer Applications Ltd.
D.B. Robinson & Associates Ltd.
Datek Industries Limited
G. Michaels Consulting
G.A. Madden & Associates Ltd.
H.R. Ruitenbeck Resource Consulting
Hyprotech Ltd.
I.P. Sharp Associates Limited
Kevonic Controls Ltd.
Neotechnology Consultants Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Scientific Software-Intercomp
Starbase Technologies Inc.
The SNC Group
Willowglen Systems Ltd.

■Oil & gas production database

D & S Petroleum Consulting Group Ltd.

■Remote sensing

Axion Spatial Imaging Ltd.
C.L. Sibbald Agri-Marketing Ltd.
Datek Industries Limited
F.G. Bercha & Associates (Alberta) Ltd.
G.A. Madden & Associates Ltd.
Martin & Company
Star Technologies Ltd.
Technical Services Group
Teknica Resource Development Ltd.
The SNC Group
Viatec Resource Systems Inc.

■Reserves & economic evaluation

Barry W. Ramer & Partners Ltd.
Coles Nikiforuk Pennell Associates
Computer Technologies
D & S Petroleum Consulting Group Ltd.
H.R. Ruitenbeck Resource Consulting
Hyprotech Ltd.
Imperial Computing Ltd.
K. Stuart Associates Ltd.
PSI Energy Software (Canada) Inc.
Petresim Engineering Ltd.
Price Waterhouse
Prime Computer of Canada Ltd.
Scientific Software-Intercomp
Thorn EMI Computer Software Ltd.

■Reservoir engineering & simulation

Coles Nikiforuk Pennell Associates
D.B. Robinson & Associates Ltd.
D & S Petroleum Consulting Group Ltd.
Dynamic Reservoir Systems Ltd.
Hyprotech Ltd.
K. Stuart Associates Ltd.
Myrias Research Corporation
Neotechnology Consultants Ltd.
PHH Engineering Ltd.
PSI Energy Software (Canada) Inc.
Petresim Engineering Ltd.
RE/SPEC Ltd.
Riley's Database International Ltd.
Scientific Software-Intercomp
Simtech Consulting Services Ltd.
Star Technologies Ltd.
Visitech Graphic Resources Inc.

■Robotics

Datek Industries Limited
R.H.G. Holdings Ltd.
Technical Services Group

■Screen handling for micros

K. Stuart Associates Ltd.

■Seismic display mapping

Coles Nikiforuk Pennell Associates

■Simulation and models

Agri-Trends Research Inc.
C.L. Sibbald Agri-Marketing Ltd.
Computer Technologies
F.G. Bercha & Associates (Alberta) Ltd.
FitzPatrick Engineering Limited
H.R. Ruitenbeck Resource Consulting

Hyprotech Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
Kakari Systems Ltd.
Myrias Research Corporation
Petresim Engineering Ltd.
Price Waterhouse
R.W. May & Associates Ltd.
Scientific Software-Intercomp
Star Technologies Ltd.
Teknica Resource Development Ltd.
Thorn EMI Computer Software Ltd.
Visitech Graphic Resources Inc.
Westacott Software Limited

■Specific electrical engineering software

Magna IV Engineering Ltd.

■Statistics

ACT Computer Services Ltd.
Agri-Trends Research Inc.
Axion Spatial Imaging Ltd.
Bolton & Associates Consulting Ltd.
Burroughs Canada
FitzPatrick Engineering Limited
I.P. Sharp Associates Limited
Imperial Computing Ltd.
Kakari Systems Ltd.
Martin & Company
R.W. May & Associates Ltd.
Thorn EMI Computer Software Ltd.
Westra & Associates Inc.

■Structural mechanics

CGE Calma
F.G. Bercha & Associates (Alberta) Ltd.
Myrias Research Corporation
Prime Computer of Canada Ltd.

■Surveying

Caulfield Engineering
The McElhanney Group Ltd.

■Test results, reports and analysis

Briskal Systems Ltd.

OPERATING SYSTEM MODULE SOFTWARE

■Communication

Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Bolton & Associates Consulting Ltd.
Brand Computer Software Ltd.
Burroughs Canada
Comshare Limited
Comtech Group International Ltd.
DSG Technical Programming Associates
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
Keyword Office Technologies Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Micro-Futures
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Star Technologies Ltd.
Streamline Software Systems Ltd.
Thirsk Computer Consulting
Total Computers Ltd.
Unexsys Systems Inc.
Willowglen Systems Ltd.

■Data access

ACT Computer Services Ltd.
Accubio Systems Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Brand Computer Software Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Comshare Limited
Comtech Group International Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
IMX Systems Corporation
Instar Corporation
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Micro-Futures
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Rinax Systems Ltd.
Scientific Software-Intercomp
Star Technologies Ltd.
Streamline Software Systems Ltd.
Thirsk Computer Consulting
Total Computers Ltd.
Willowglen Systems Ltd.

■Data security

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Brand Computer Software Ltd.
Burroughs Canada
Computrex Centres Ltd.
Comshare Limited
Comtech Group International Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Imperial Computing Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Micro-Futures
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Rinax Systems Ltd.
Streamline Software Systems Ltd.
Total Computers Ltd.
Unexsys Systems Inc.

■Database management

ACT Computer Services Ltd.
Advanced Data Systems
Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Edmonton)
Brand Computer Software Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Compudraft Services
Computrex Centres Ltd.
Computronix
Comshare Limited
Comtech Group International Ltd.
Corex Dataline Ltd.

D & S Petroleum Consulting Group Ltd.
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
IMX Systems Corporation
Imperial Computing Ltd.
JDA Software Services Ltd.
Kakari Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Micro-Futures
Ocelot Computer Services Inc.
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Scientific Software-Intercomp
Streamline Software Systems Ltd.
Technical Services Group
Thorn EMI Computer Software Ltd.
Total Computers Ltd.
Unexsys Systems Inc.
Westra & Associates Inc.
Willowglen Systems Ltd.

■Debugging

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Brand Computer Software Ltd.
Burroughs Canada
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Kwok & Company Inc.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Star Technologies Ltd.
Streamline Software Systems Ltd.
Technical Services Group
Total Computers Ltd.
Willowglen Systems Ltd.

■Device support

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Brand Computer Software Ltd.
Burroughs Canada
I.P. Sharp Associates Limited
Instar Corporation
MAI Canada Ltd.
MCT Microlink
MDS Quantel Canada Inc.
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Rinax Systems Ltd.
Technical Services Group
Teknica Resource Development Ltd.
Thirsk Computer Consulting
Total Computers Ltd.
Unexsys Systems Inc.
Willowglen Systems Ltd.

■Diagnostics

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Brand Computer Software Ltd.
Burroughs Canada
G.A. Madden & Associates Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Rinax Systems Ltd.
Star Technologies Ltd.
Streamline Software Systems Ltd.
Technical Services Group
Thirsk Computer Consulting
Total Computers Ltd.
Unexsys Systems Inc.
Willowglen Systems Ltd.

■File management

ACT Computer Services Ltd.
Accubio Systems Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Ashley Data Management & Storage Ltd.
Brand Computer Software Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Caulfield Engineering
Colman, Organ and Company
Compudraft Services
Computrex Centres Ltd.
Computronix
Comshare Limited
Corex Dataline Ltd.
D & S Petroleum Consulting Group Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
IMX Systems Corporation
MAI Canada Ltd.
MDS Quantel Canada Inc.
Myrias Research Corporation
Pansophic Systems of Canada
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.

Reynolds & Reynolds
Rinax Systems Ltd.
Scientific Software-Intercomp
Streamline Software Systems Ltd.
Total Computers Ltd.
Visitech Graphic Resources Inc.
Westra & Associates Inc.

■Hardware performance evaluator

Alberta Minicomputers Ltd. (Edmonton)
Burroughs Canada
MAI Canada Ltd.
MDS Quantel Canada Inc.
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Rinax Systems Ltd.
Star Technologies Ltd.
Streamline Software Systems Ltd.
Thorn EMI Computer Software Ltd.
Total Computers Ltd.

■Information search and retrieve

ACT Computer Services Ltd.
Accubio Systems Ltd.
Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Edmonton)
Ashley Data Management & Storage Ltd.
CMS Corporate Management Systems (Edmonton)
Candella Group
Computrex Centres Ltd.
Corex Dataline Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
IMX Systems Corporation
Infotel Display Systems Canada Inc.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Information Group
Micro-Futures
Pansophic Systems of Canada Ltd.
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Schema Systems Limited
Streamline Software Systems Ltd.
Total Computers Ltd.

■Input-output

ACT Computer Services Ltd.
Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Edmonton)
Bass Ticket Service Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Canadian Institute of Formation Evaluation
Caulfield Engineering
Comshare Limited
Comtech Group International Ltd.
D & S Petroleum Consulting Group Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Information Group
Micro-Futures
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Schema Systems Limited
Star Technologies Ltd.
Technical Services Group
Teknica Resource Development Ltd.
Total Computers Ltd.
Willowglen Systems Ltd.

■Loaders

Alberta Minicomputers Ltd. (Edmonton)
Burroughs Canada
Comshare Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Schema Systems Limited
Star Technologies Ltd.
Total Computers Ltd.

■Operating systems, compilers and languages

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Burroughs Canada
Compudraft Services
Custom Micro Systems Ltd.
Geo-Slope Programming Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Micro-Futures
Myrias Research Corporation
Pansophic Systems of Canada Ltd.

Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Schema Systems Limited
Star Technologies Ltd.
Streamline Software Systems Ltd.
Total Computers Ltd.
Unexsys Systems Inc.
Westra & Associates Inc.
Willowglen Systems Ltd.

■Program development

ACT Computer Services Ltd.
Accubio Systems Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Brand Computer Software Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Comgen Software Services
Compudraft Services
Computrex Centres Ltd.
Computronix
Comtech Group International Ltd.
Custom Micro Systems Ltd.
DSG Technical Programming Associates
G.A. Madden & Associates Ltd.
Geo-Slope Programming Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
Kakari Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Myrias Research Corporation
Novate Enterprises Inc.
Pansophic Systems of Canada Ltd.
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Rinax Systems Ltd.
Star Technologies Ltd.
Streamline Software Systems Ltd.
Synerlogic Inc.
Technical Services Group
Thorn EMI Computer Software Ltd.
Total Computers Ltd.
Westra & Associates Inc.
Willowglen Systems Ltd.

■Program library management

ACT Computer Services Ltd.
Accubio Systems Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Brand Computer Software Ltd.
Burroughs Canada
Custom Micro Systems Ltd.
D & S Petroleum Consulting Group Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Myrias Research Corporation
Pansophic Systems of Canada Ltd.
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Schema Systems Limited
Streamline Software Systems Ltd.
Thorn EMI Computer Software Ltd.
Total Computers Ltd.
Willowglen Systems Ltd.

■Program security

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Brand Computer Software Ltd.
Burroughs Canada
Comtech Group International Ltd.
Geo-Slope Programming Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Information Group
Myrias Research Corporation
Pansophic Systems of Canada Ltd.
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Schema Systems Limited
Streamline Software Systems Ltd.
Thorn EMI Computer Software Ltd.

■Records management

ACT Computer Services Ltd.
Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Edmonton)
Ashley Data Management & Storage Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Comshare Limited
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Micro-Futures
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Schema Systems Limited
Streamline Software Systems Ltd.

Report generators

ACT Computer Services Ltd.
Agri-Trends Research Inc.
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Ashley Data Management & Storage Ltd.
Brand Computer Software Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)
Colman, Organ and Company
Comshare Limited
Comtech Group International Ltd.
Corex Dataline Ltd.
D & S Petroleum Consulting Group Ltd.
I.P. Sharp Associates Limited
IMX Systems Corporation
JDA Software Services Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Pansophic Systems of Canada Ltd.
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Schema Systems Limited
Software Integration Services
Streamline Software Systems Ltd.
Thorn EMI Computer Software Ltd.
Willowglen Systems Ltd.

Screen painters

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Ashley Data Management & Storage Ltd.
Burroughs Canada
Comtech Group International Ltd.
D & S Petroleum Consulting Group Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Micro-Futures
Pansophic Systems of Canada Ltd.
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Streamline Software Systems Ltd.
Synerlogic Inc.
Thorn EMI Computer Software Ltd.
Willowglen Systems Ltd.

Software performance evaluator

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Burroughs Canada
Corex Dataline Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
Rinax Systems Ltd.
Streamline Software Systems Ltd.

Sort-merge

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Ashley Data Management & Storage Ltd.
Burroughs Canada
Colman, Organ and Company
Compudraft Services
Comshare Limited
Comtech Group International Ltd.
G.A. Madden & Associates Ltd.
I.P. Sharp Associates Limited
MAI Canada Ltd.
MDS Quantel Canada Inc.
Myrias Research Corporation
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Streamline Software Systems Ltd.
Thorn EMI Computer Software Ltd.
Unexsys Systems Inc.
Westra & Associates Inc.

Utilities

ACT Computer Services Ltd.
Alberta Minicomputers Ltd. (Edmonton)
Ashley Data Management & Storage Ltd.
Brand Computer Software Ltd.
Burroughs Canada
CMS Corporate Management Systems (Edmonton)

Comgen Software Services
Compudraft Services
Computek Ltd.
Comtech Group International Ltd.
G.A. Madden & Associates Ltd.
Harrison Muirhead Systems Ltd.
I.P. Sharp Associates Limited
K. Stuart Associates Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Myrias Research Corporation
Ocelot Computer Services Inc.
Pansophic Systems of Canada Ltd.
Perkin-Elmer Canada Ltd.
Prime Computer of Canada Ltd.
R.H.G. Holdings Ltd.
Reynolds & Reynolds
Rinax Systems Ltd.
Schema Systems Limited
Software Integration Services
Star Technologies Ltd.
Streamline Software Systems Ltd.
Thirsk Computer Consulting
Unexsys Systems Inc.

SYSTEM SOFTWARE

■AEC

Calcomp Sanders (Canada) Inc.

■Applications-program generators

Prime Computer of Canada Ltd.
Technical Services Group

■Assemblers systems

Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Burroughs Canada
Caulfield Engineering
Comshare Limited
Custom Micro Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Myrias Research Corporation
SRD Software Research & Development Corp.
Star Technologies Ltd.
Technical Services Group
Thirsk Computer Consulting
Total Computers Ltd.
Westacott Software Limited

■Cobol conversion software

Aspen Computing Solutions Ltd.

■Compilers systems

Alberta Minicomputers Ltd. (Edmonton)
Anador Limited
Barry W. Ramer & Partners Ltd.
Burroughs Canada
Caulfield Engineering
Comshare Limited
Geo-Slope Programming Ltd.
Harrison Muirhead Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Management Science America (Canada) Ltd.
Micro-Futures
Myrias Research Corporation
Star Technologies Ltd.
Technical Services Group
Thirsk Computer Consulting
Thorn EMI Computer Software Ltd.
Total Computers Ltd.
Westra & Associates Inc.

■Conversion of HP Basic to other Basics

MCT Microlink

■Disassemblers

Thirsk Computer Consulting

■Language translators system

Alberta Minicomputers Ltd. (Edmonton)
Barry W. Ramer & Partners Ltd.
Burroughs Canada
MDS Quantel Canada Inc.
Myrias Research Corporation
Rinax Systems Ltd.
Star Technologies Ltd.
Total Computers Ltd.

■Macro-assemblers software

Alberta Minicomputers Ltd. (Edmonton)
Barry W. Ramer & Partners Ltd.
Burroughs Canada
Custom Micro Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Star Technologies Ltd.
Total Computers Ltd.

■Precompilers and or editors

Abcom Computer Supplies Ltd.
Alberta Minicomputers Ltd. (Edmonton)

Anador Limited
Burroughs Canada
Computek Ltd.
Comshare Limited
Custom Micro Systems Ltd.
MAI Canada Ltd.
MDS Quantel Canada Inc.
Pansophic Systems of Canada Ltd.
Prime Computer of Canada Ltd.
Rinax Systems Ltd.
Simtech Consulting Services Ltd.
Star Technologies Ltd.
Total Computers Ltd.

■Simulators interpreters

Abcom Computer Supplies Ltd.
Alberta Minicomputers Ltd. (Edmonton)
I.P. Sharp Associates Limited
Star Technologies Ltd.
Thorn EMI Computer Software Ltd.

■Spoolers

Canadian Institute of Formation Evaluation